# User Guide for DS350E, with Motion LE1700 tablet

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# MAIN COMPONENTS

# Main Components

**The Tablet**

**Vehicle Communication Interface (V.C.I.)**

# Motion LE 1700 Tablet

Power switch and USB ports

Power/charging port

Escape

Function button

Directional pad

Dashboard

Rotate display

# Vehicle Communication Interface (V.C.I.)

## Protocols

J1850 PWM (SCP)

J1850 VPW

ISO 9141

J1939 (CAN)

ISO 11898, 11519 (CAN)

ISO 14230 (KWP2000)

ISO 15765 (DiagOnCAN)

RS422, J1708 (Ford DCL)

RS485

5 Volt Comms (Range Rover),

Flash code, etc

## Connection to the tablet via:

**Bluetooth**

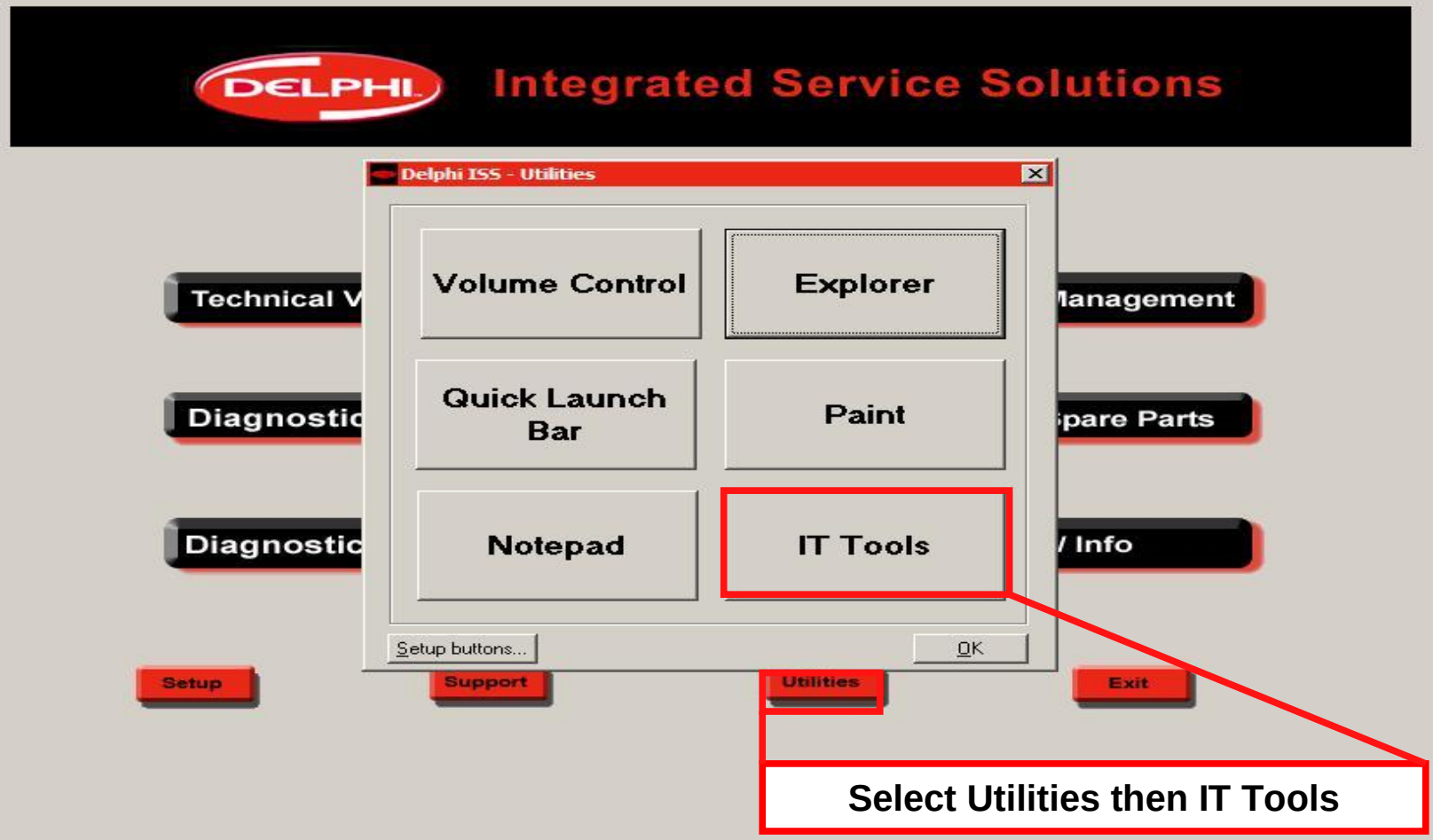
**USB**

**Operating Voltage:**

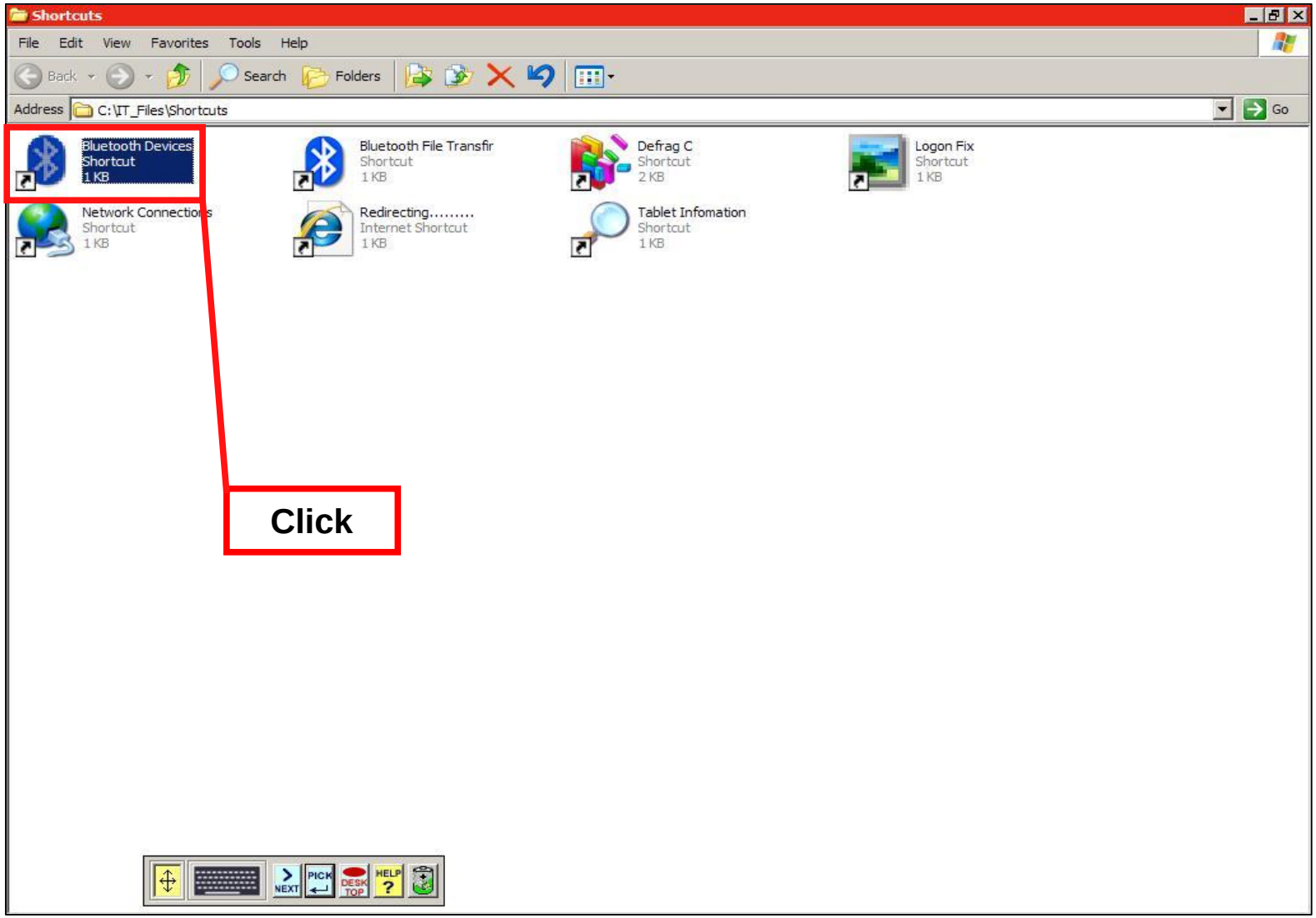
**1 – 10V**

# BLUETOOTH CONFIGURATION

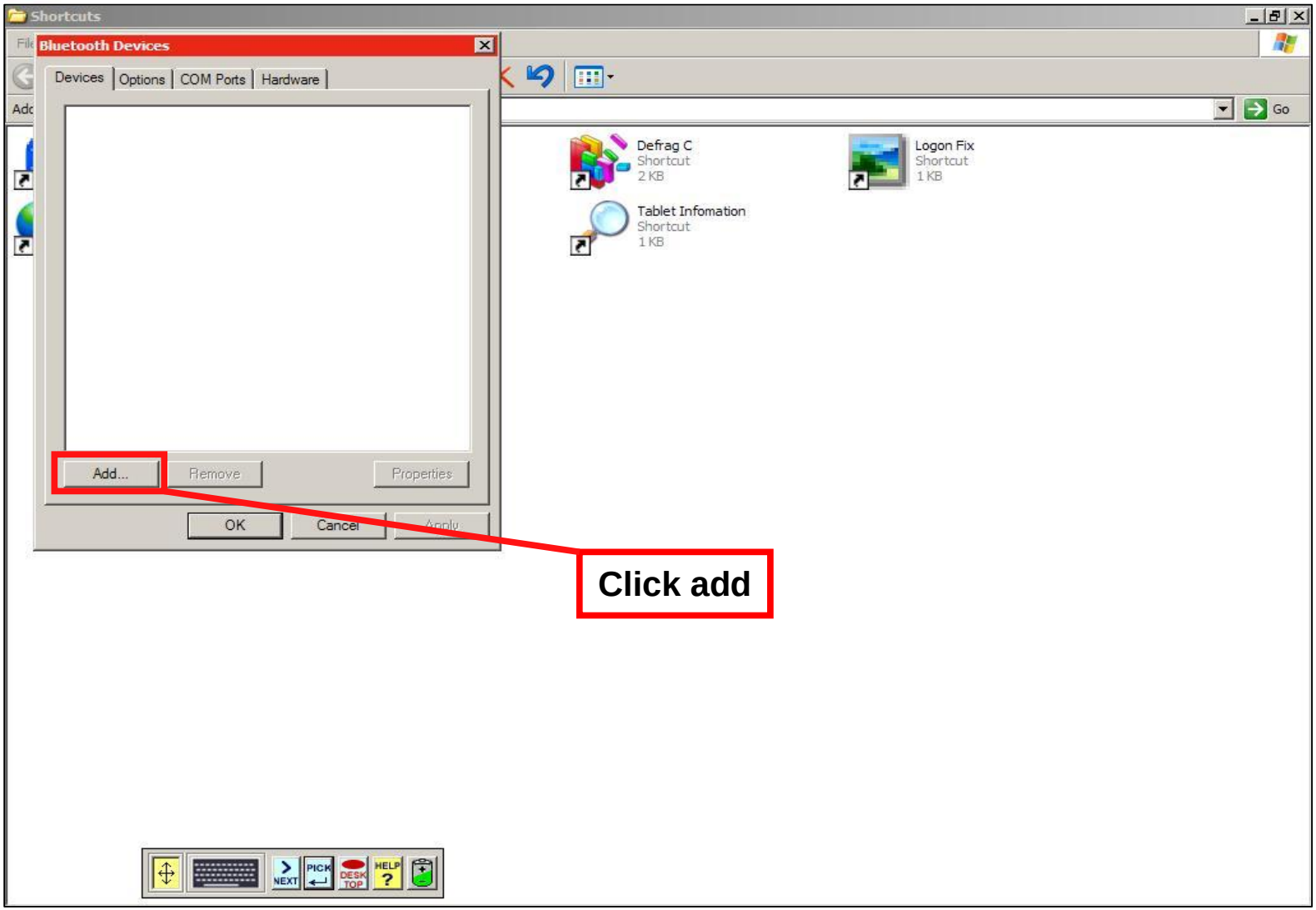
# Bluetooth Configuration 1



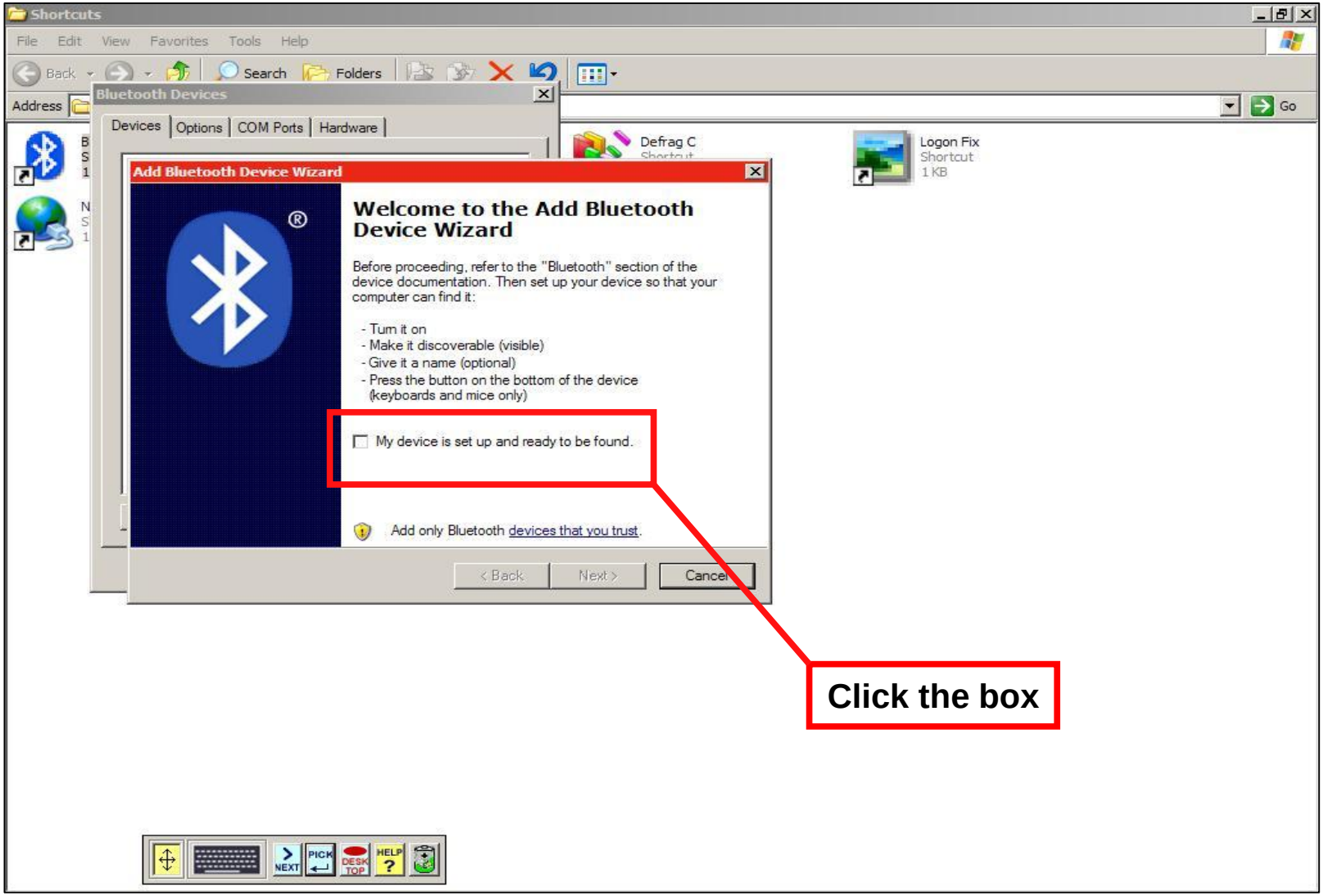
# Bluetooth Configuration 2



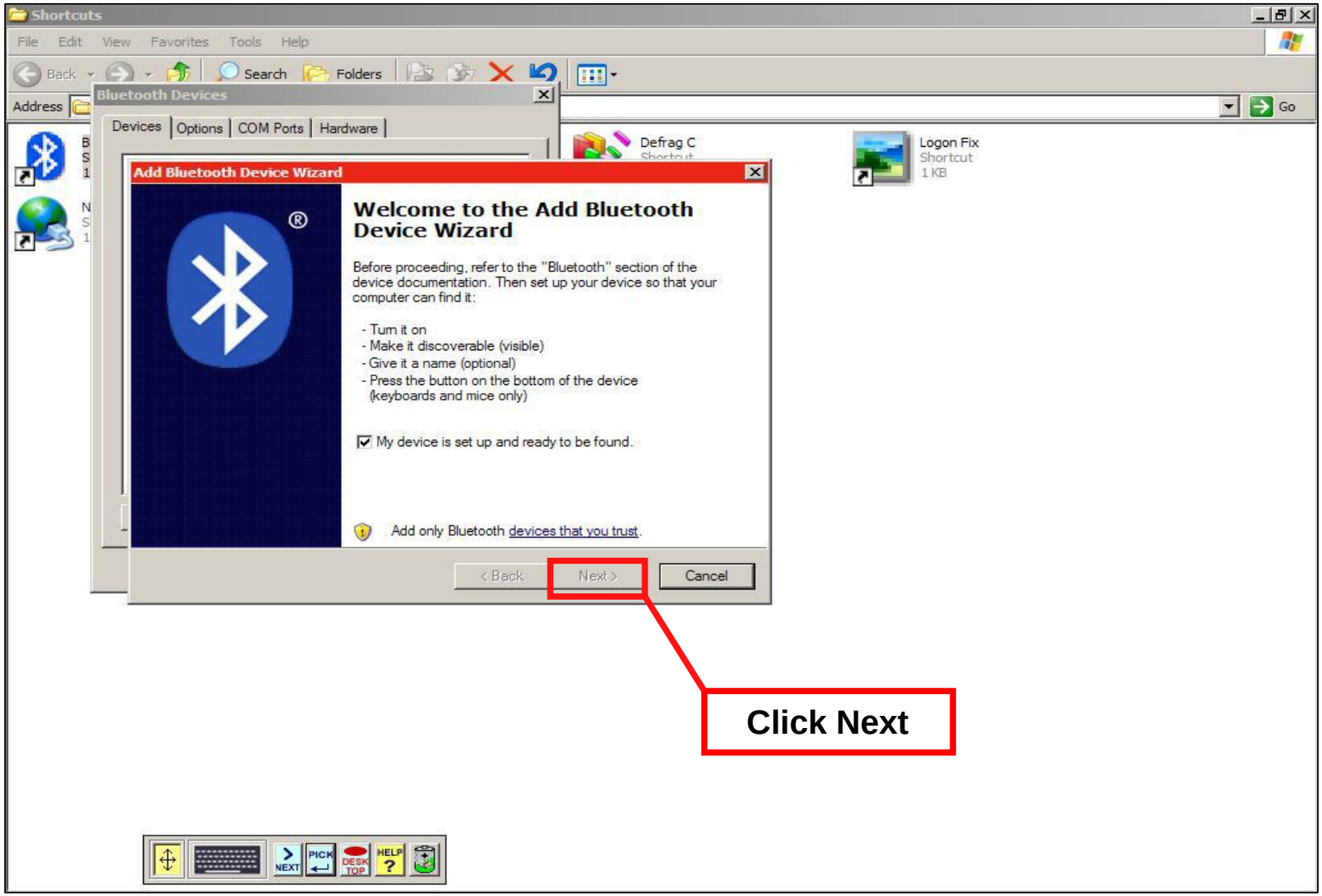
# Bluetooth Configuration 3



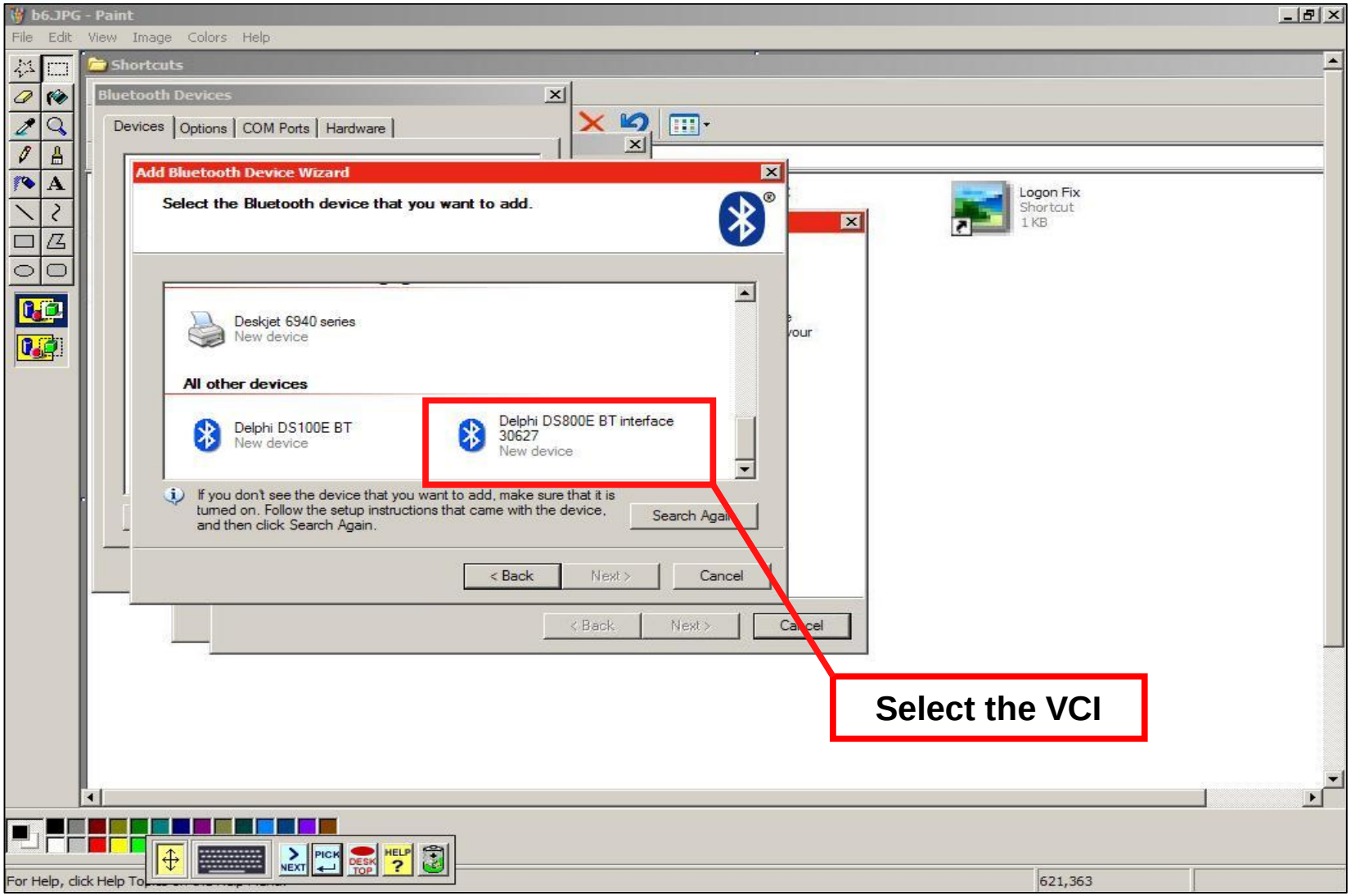
# Bluetooth Configuration 4


Shortcuts
File Edit View Favorites Tools Help
Back Search Folders
Address
Go
Bluetooth Devices
Devices Options COM Ports Hardware
Defrag C
Shortcut
Logon Fix
Shortcut
1 KB
Add Bluetooth Device Wizard
Welcome to the Add Bluetooth Device Wizard
Before proceeding, refer to the "Bluetooth" section of the device documentation. Then set up your device so that your computer can find it:
- Turn it on
- Make it discoverable (visible)
- Give it a name (optional)
- Press the button on the bottom of the device (keyboards and mice only)
My device is set up and ready to be found.
Add only Bluetooth devices that you trust.
< Back
Next >
Cancel
Click the box

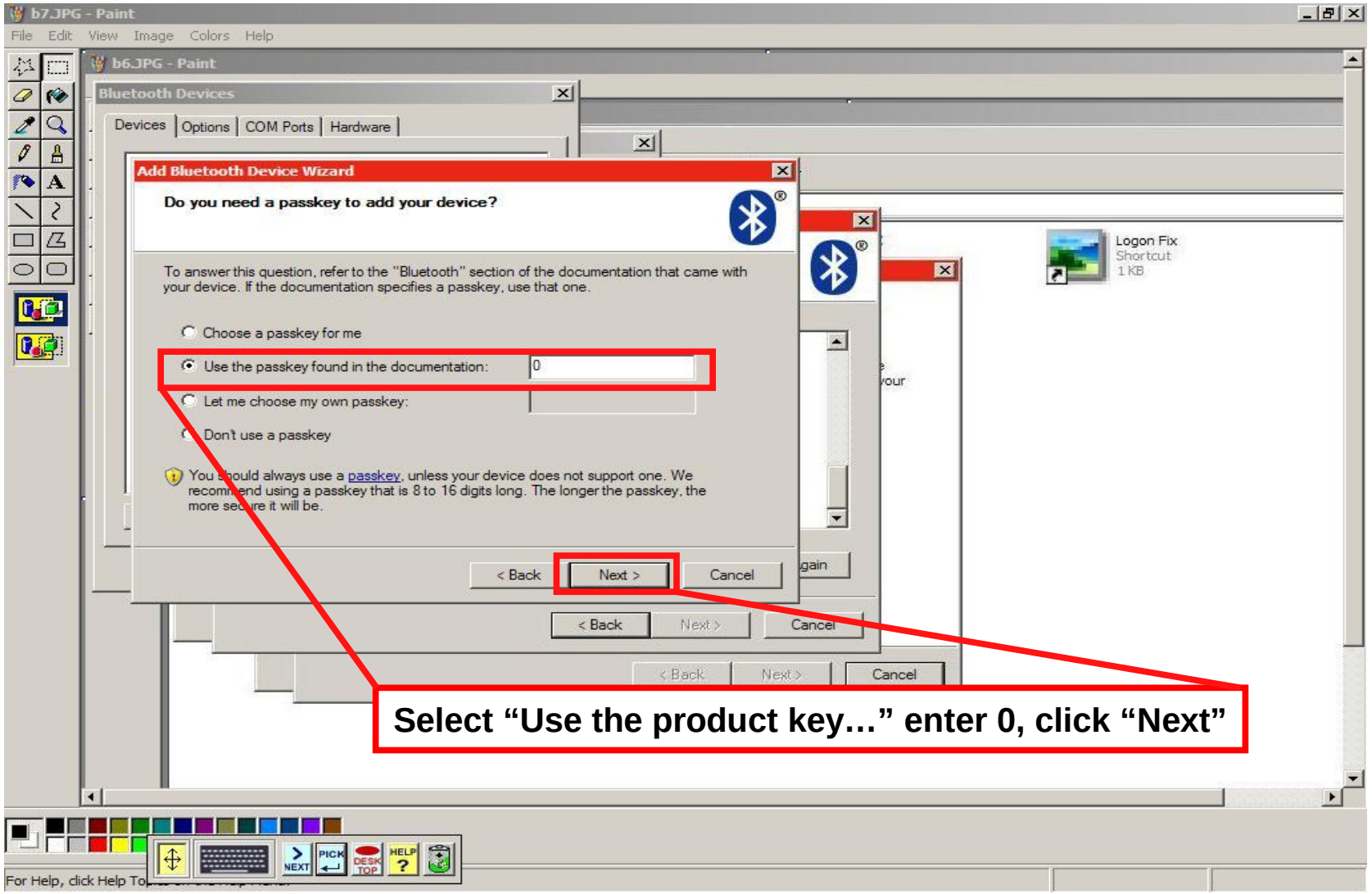
# Bluetooth Configuration 5


Shortcuts
File Edit View Favorites Tools Help
Back Search Folders
Address
Go
Bluetooth Devices
Devices Options COM Ports Hardware
Defrag C
Logon Fix
Shortcut
1 KB
Add Bluetooth Device Wizard
Welcome to the Add Bluetooth Device Wizard
Before proceeding, refer to the "Bluetooth" section of the device documentation. Then set up your device so that your computer can find it:
- Turn it on
- Make it discoverable (visible)
- Give it a name (optional)
- Press the button on the bottom of the device (keyboards and mice only)
My device is set up and ready to be found.
Add only Bluetooth devices that you trust.
< Back
Next >
Cancel
Click Next
NEXT
PICK
DESK TOP
HELP

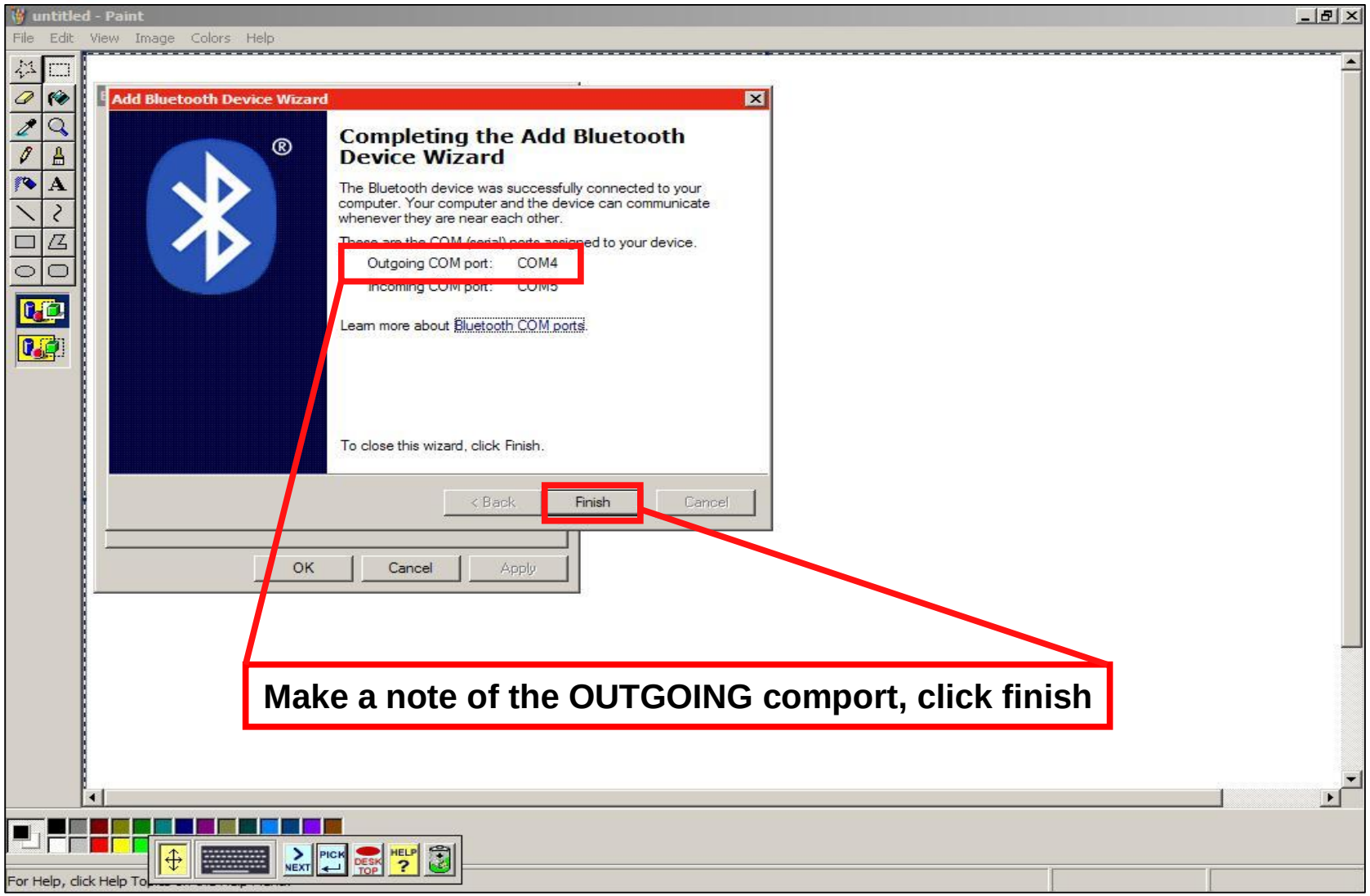
# Bluetooth Configuration 6


b6.JPG - Paint
File Edit View Image Colors Help
Shortcuts
Bluetooth Devices
Devices Options COM Ports Hardware
Add Bluetooth Device Wizard
Select the Bluetooth device that you want to add.
Deskjet 6940 series
New device
All other devices
Delphi DS100E BT
New device
Delphi DS800E BT interface
30627
New device
If you don't see the device that you want to add, make sure that it is turned on. Follow the setup instructions that came with the device, and then click Search Again.
Search Again
< Back
Next >
Cancel
Logon Fix
Shortcut
1 KB
Select the VCI
621,363

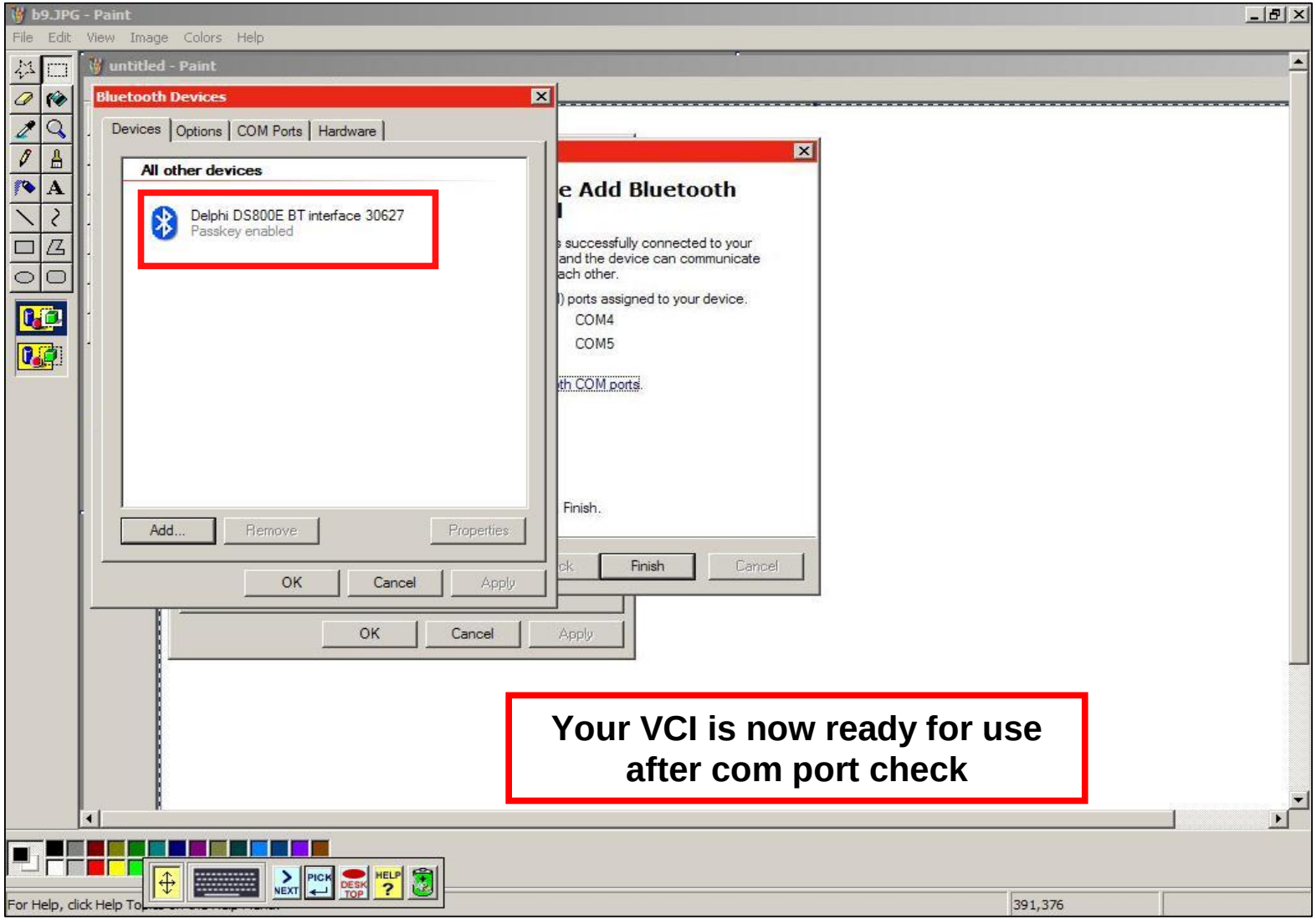
# Bluetooth Configuration 7


b7.JPG - Paint
File Edit View Image Colors Help
b6.JPG - Paint
Bluetooth Devices
Devices Options COM Ports Hardware
Add Bluetooth Device Wizard
Do you need a passkey to add your device?
To answer this question, refer to the "Bluetooth" section of the documentation that came with your device. If the documentation specifies a passkey, use that one.
Choose a passkey for me
Use the passkey found in the documentation:
0
Let me choose my own passkey:
Don't use a passkey
You should always use a passkey, unless your device does not support one. We recommend using a passkey that is 8 to 16 digits long. The longer the passkey, the more secure it will be.
< Back
Next >
Cancel
Logon Fix
Shortcut
1 KB
Select "Use the product key…" enter 0, click "Next"

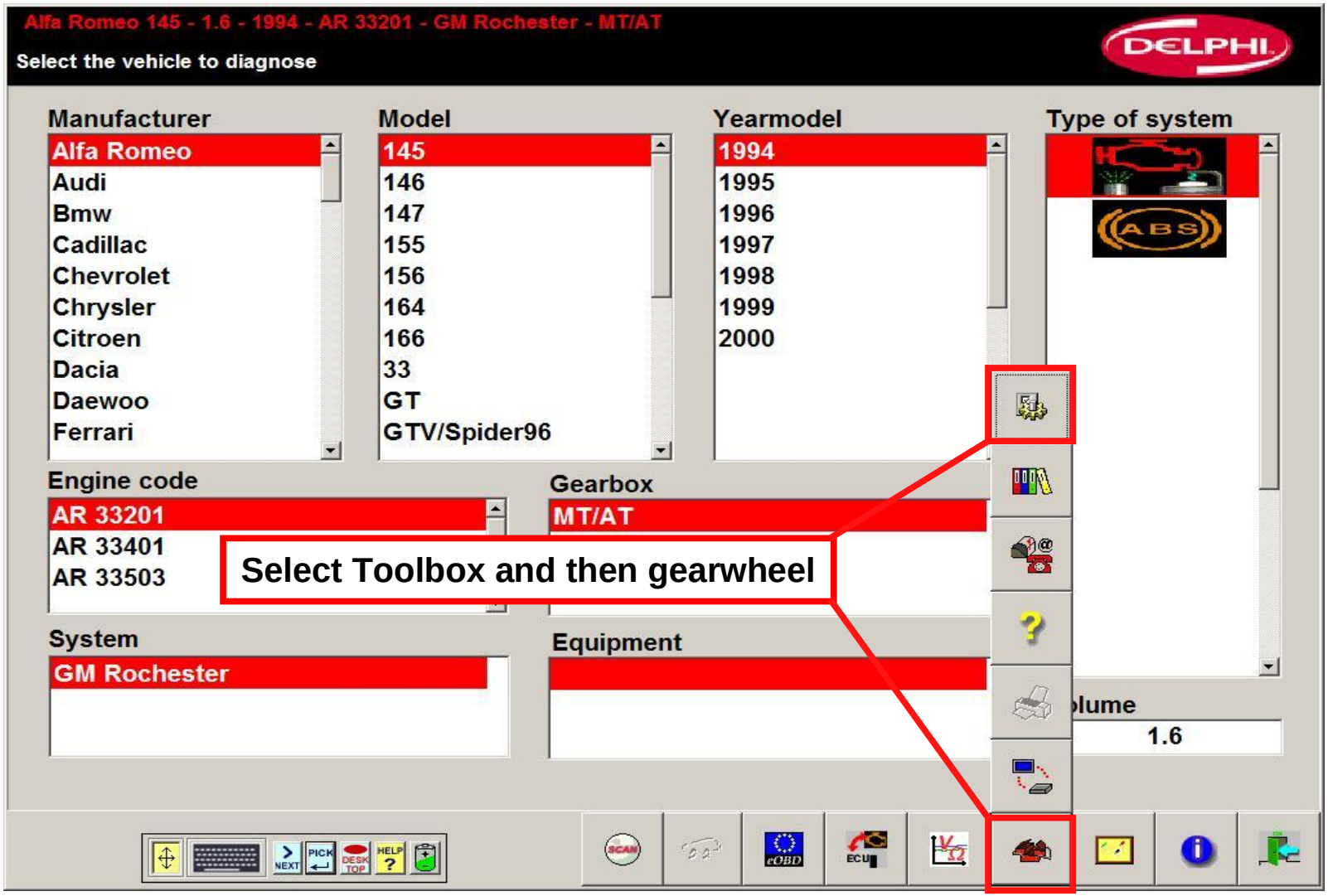
# Bluetooth Configuration 8


untitled - Paint
File Edit View Image Colors Help
Add Bluetooth Device Wizard
Completing the Add Bluetooth Device Wizard
The Bluetooth device was successfully connected to your computer. Your computer and the device can communicate whenever they are near each other.
Outgoing COM port: COM4
Learn more about Bluetooth COM ports.
To close this wizard, click Finish.
< Back
Finish
Cancel
OK
Cancel
Apply
Make a note of the OUTGOING comport, click finish

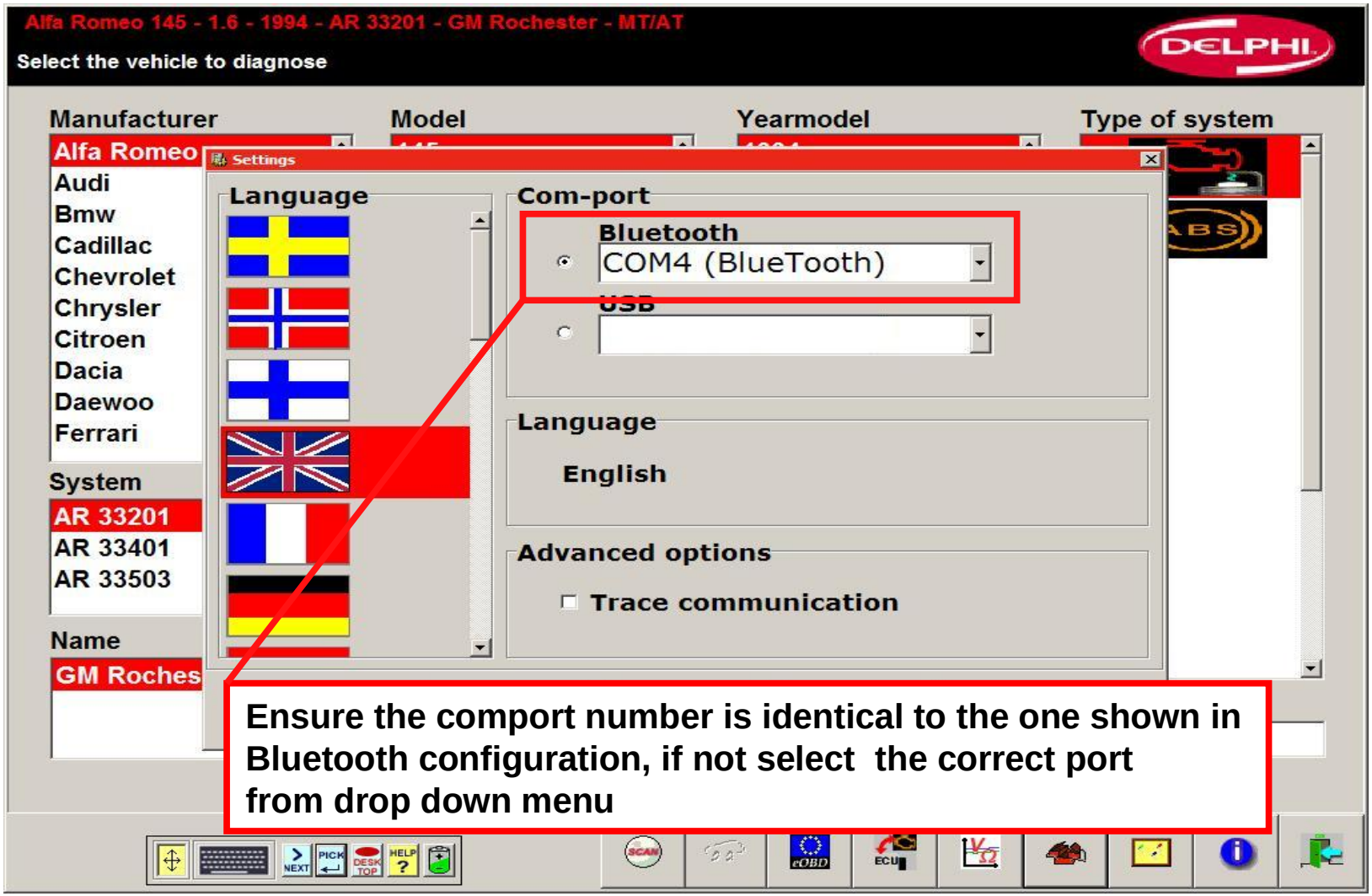
# Bluetooth Configuration 9



# Bluetooth Configuration 10



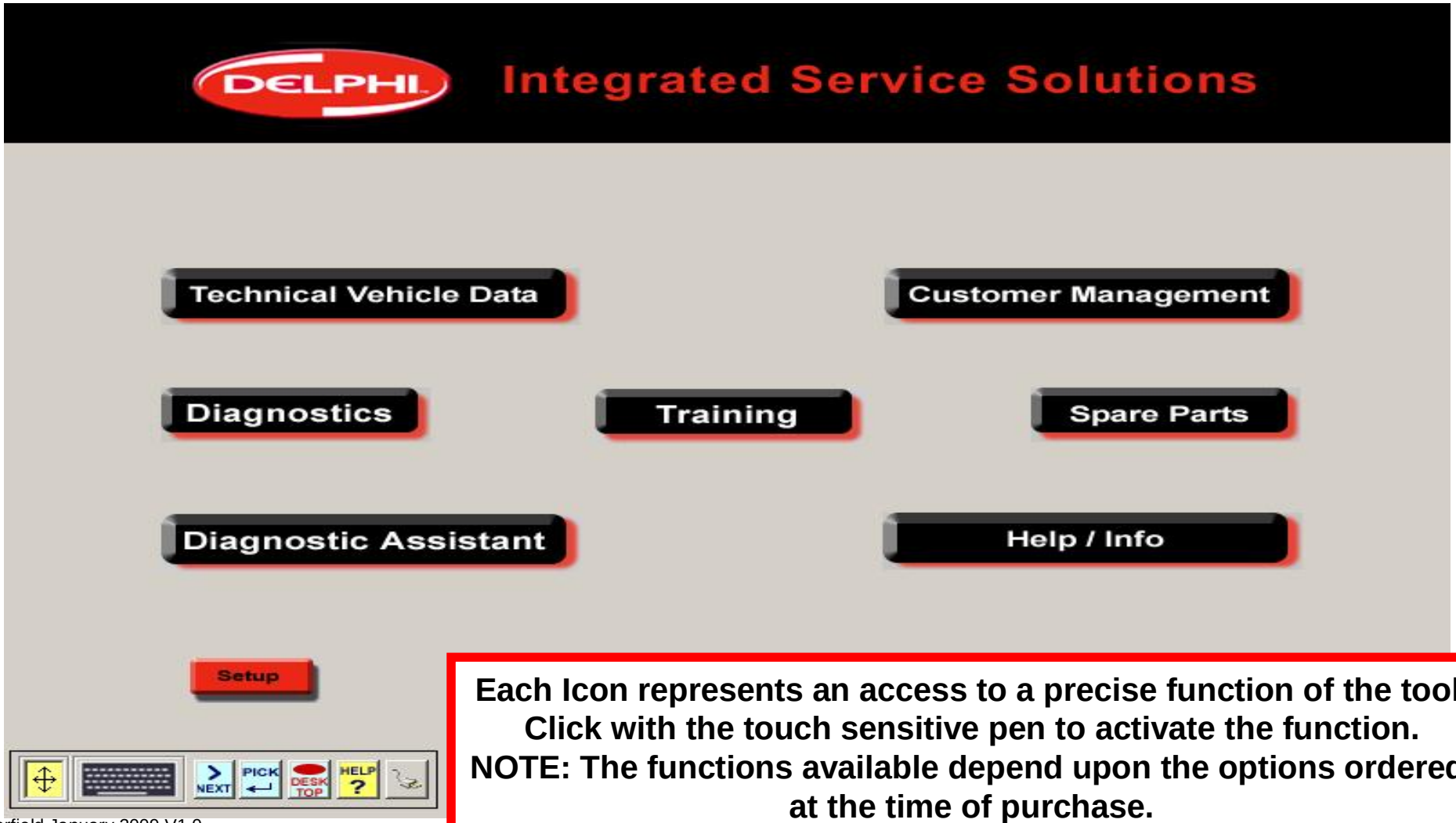
# Bluetooth Configuration 11



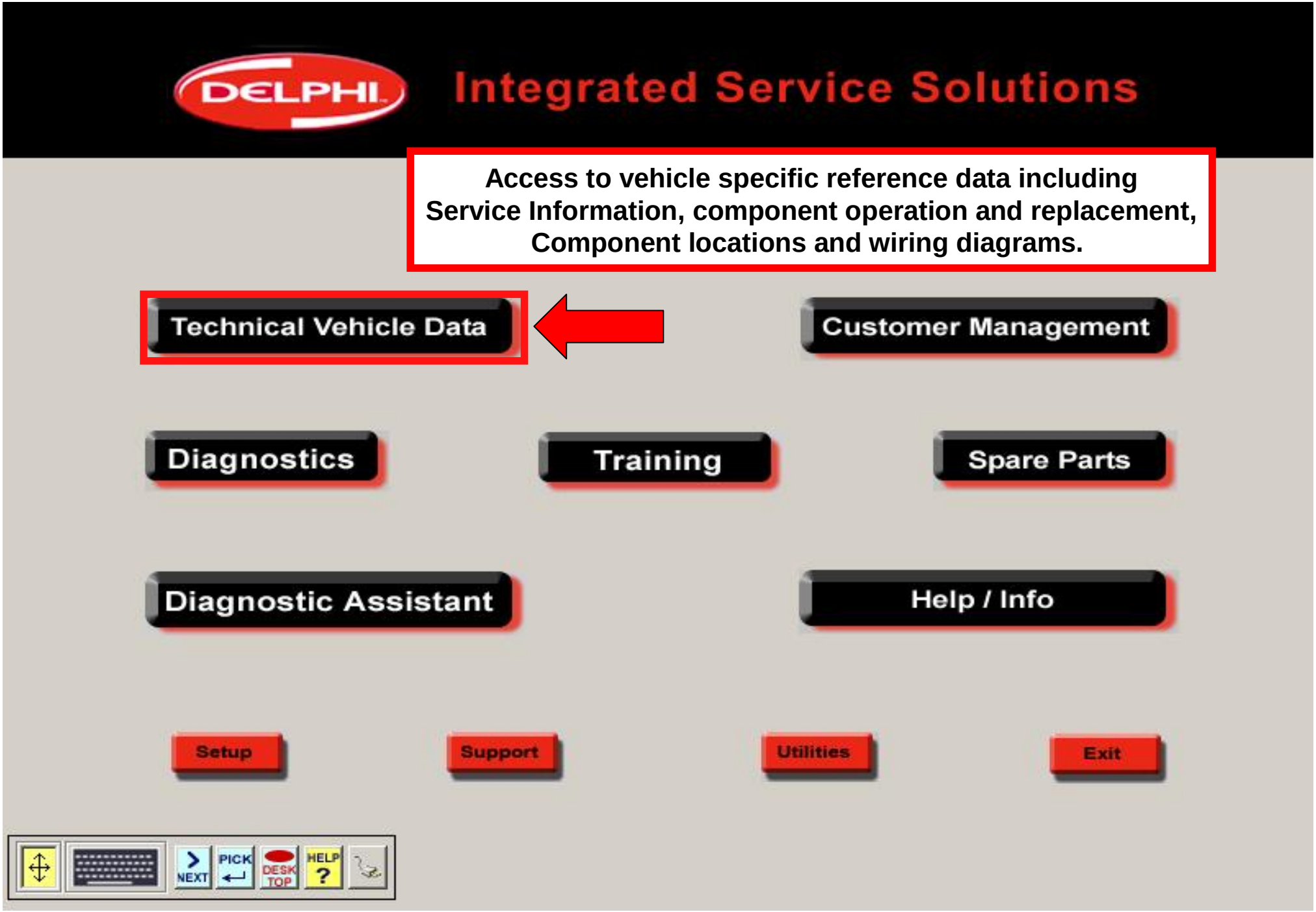
# MAIN MENU

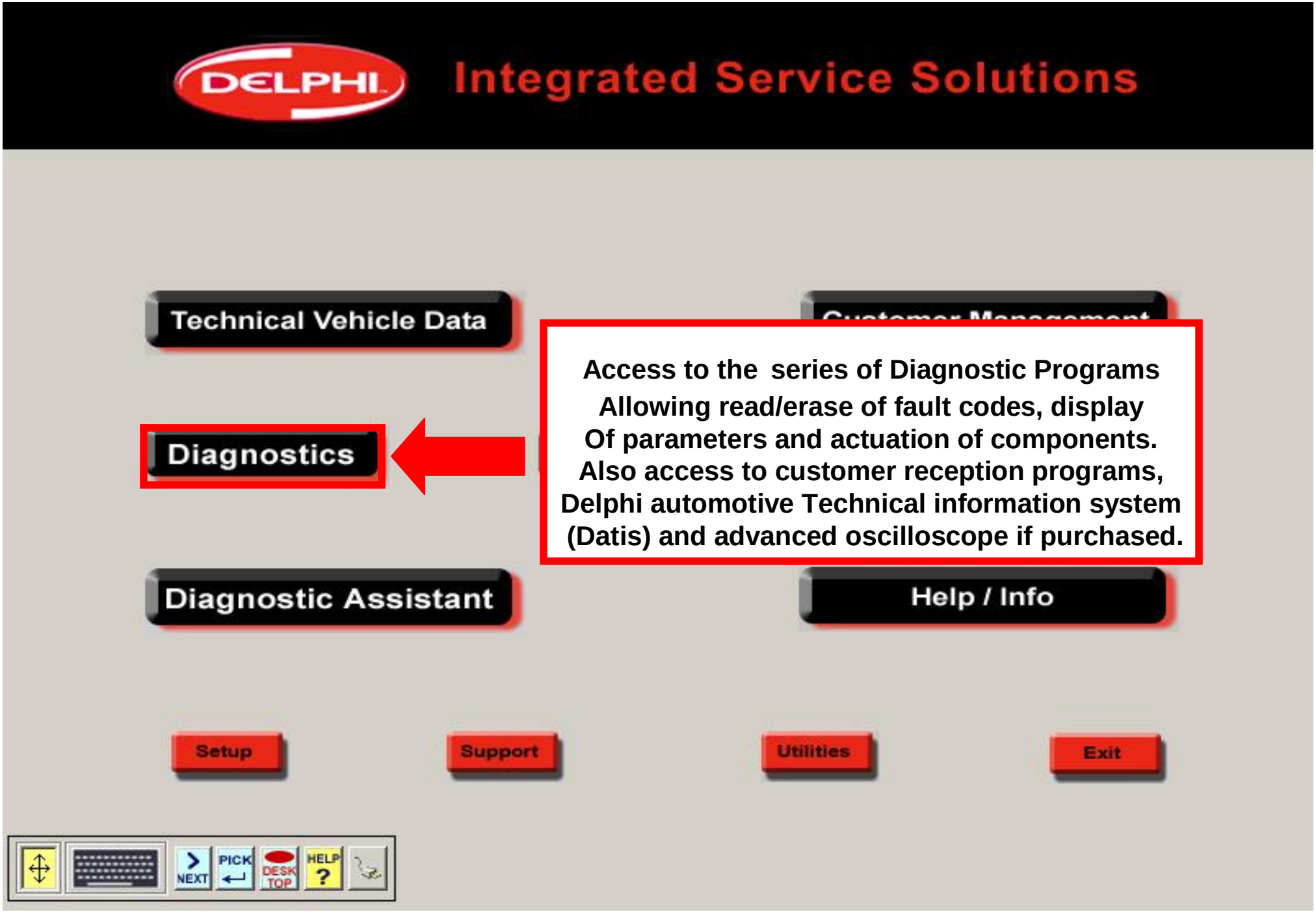
# The Main Menu

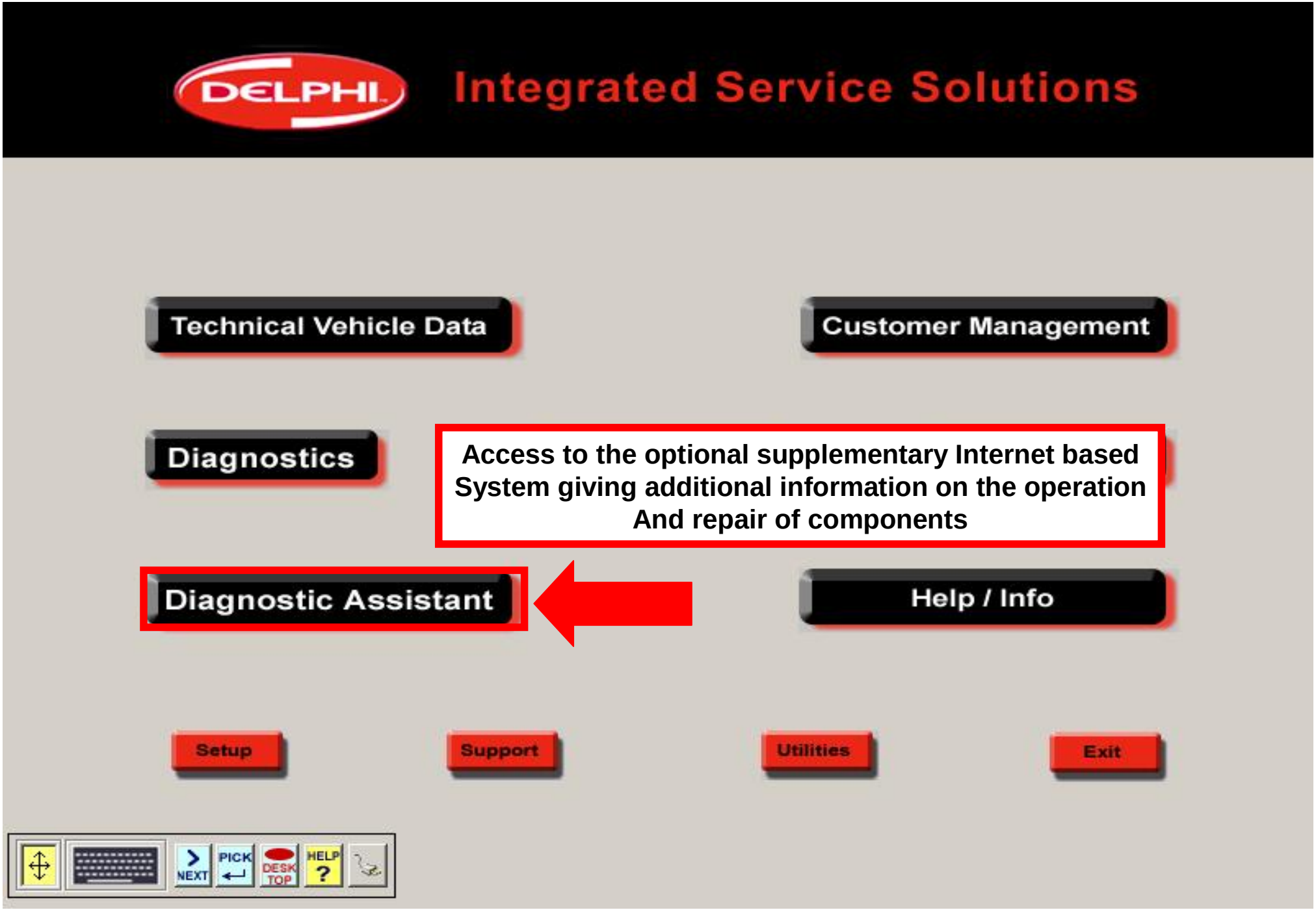
**The Main menu is automatically activated at start-up**

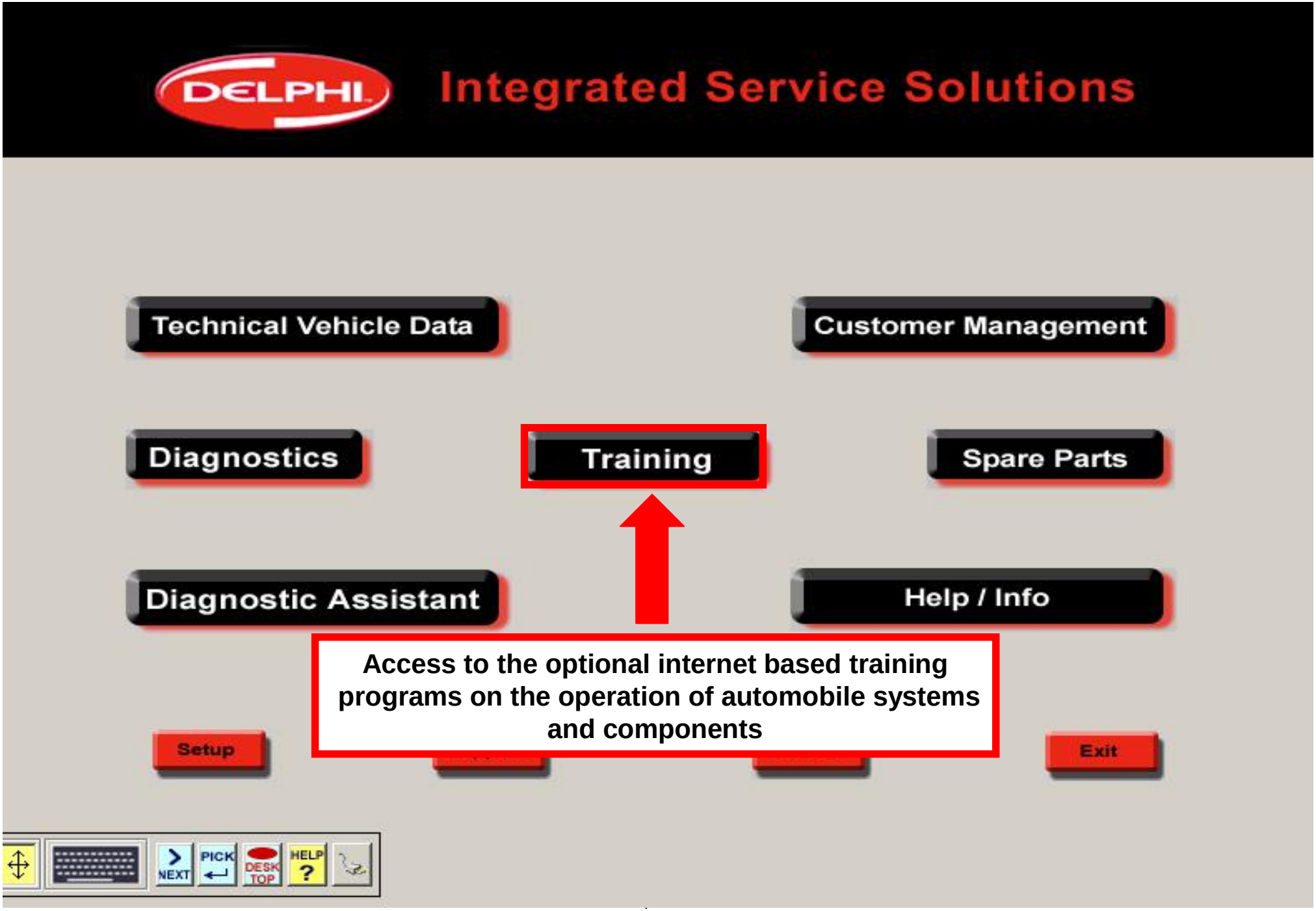


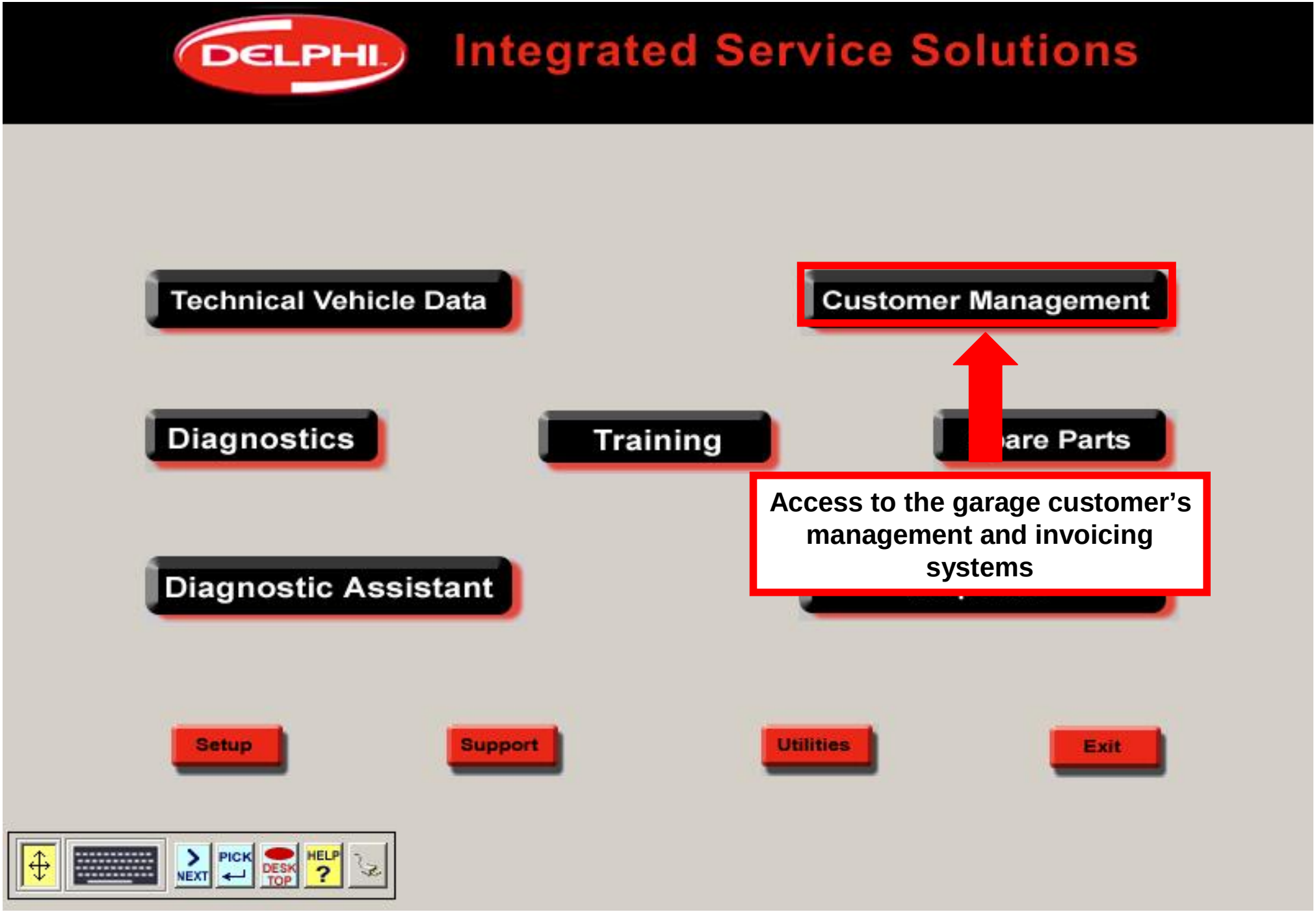

**Each Icon represents an access to a precise function of the tool. Click with the touch sensitive pen to activate the function. NOTE: The functions available depend upon the options ordered at the time of purchase.**

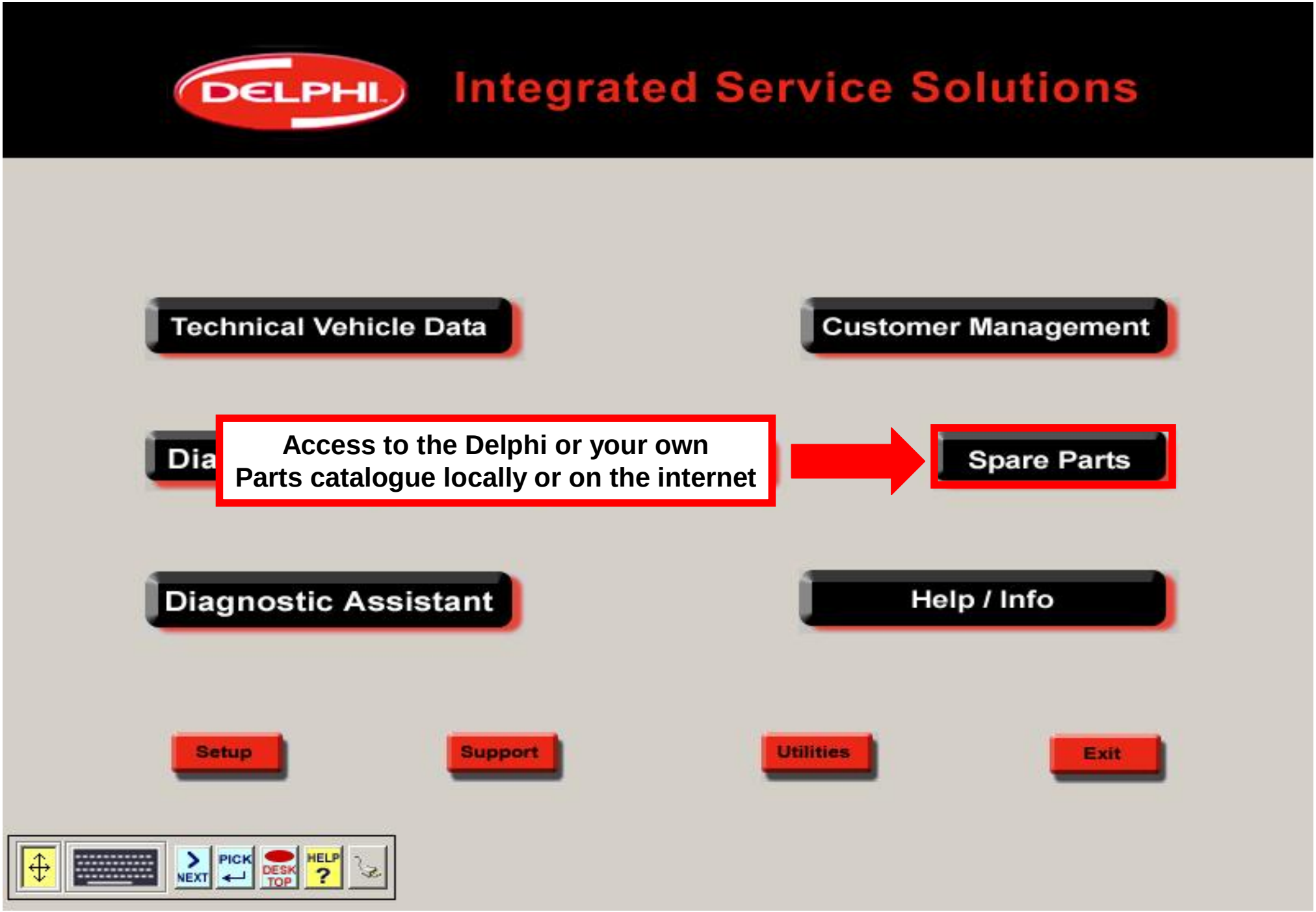

DELPHI
Integrated Service Solutions
Access to vehicle specific reference data including Service Information, component operation and replacement, Component locations and wiring diagrams.
Technical Vehicle Data
Customer Management
Diagnostics
Training
Spare Parts
Diagnostic Assistant
Help / Info
Setup
Support
Utilities
Exit
NEXT
PICK
DESK TOP
HELP

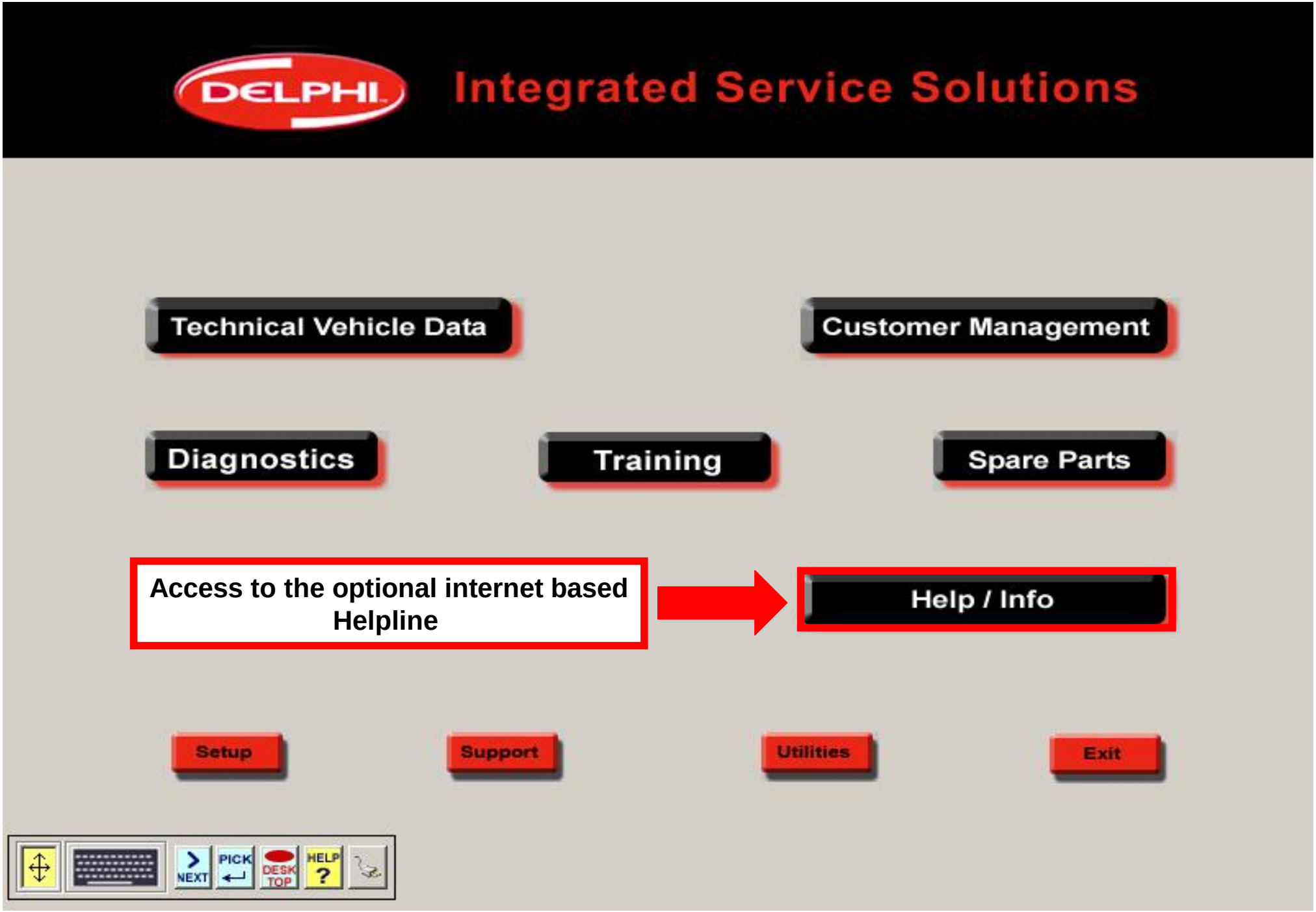

DELPHI
Integrated Service Solutions
Technical Vehicle Data
Diagnostics
Diagnostic Assistant
Help / Info
Access to the series of Diagnostic Programs
Allowing read/erase of fault codes, display
Of parameters and actuation of components.
Also access to customer reception programs,
Delphi automotive Technical information system
(Datis) and advanced oscilloscope if purchased.
Setup
Support
Utilities
Exit
NEXT
PICK
DESK TOP
HELP

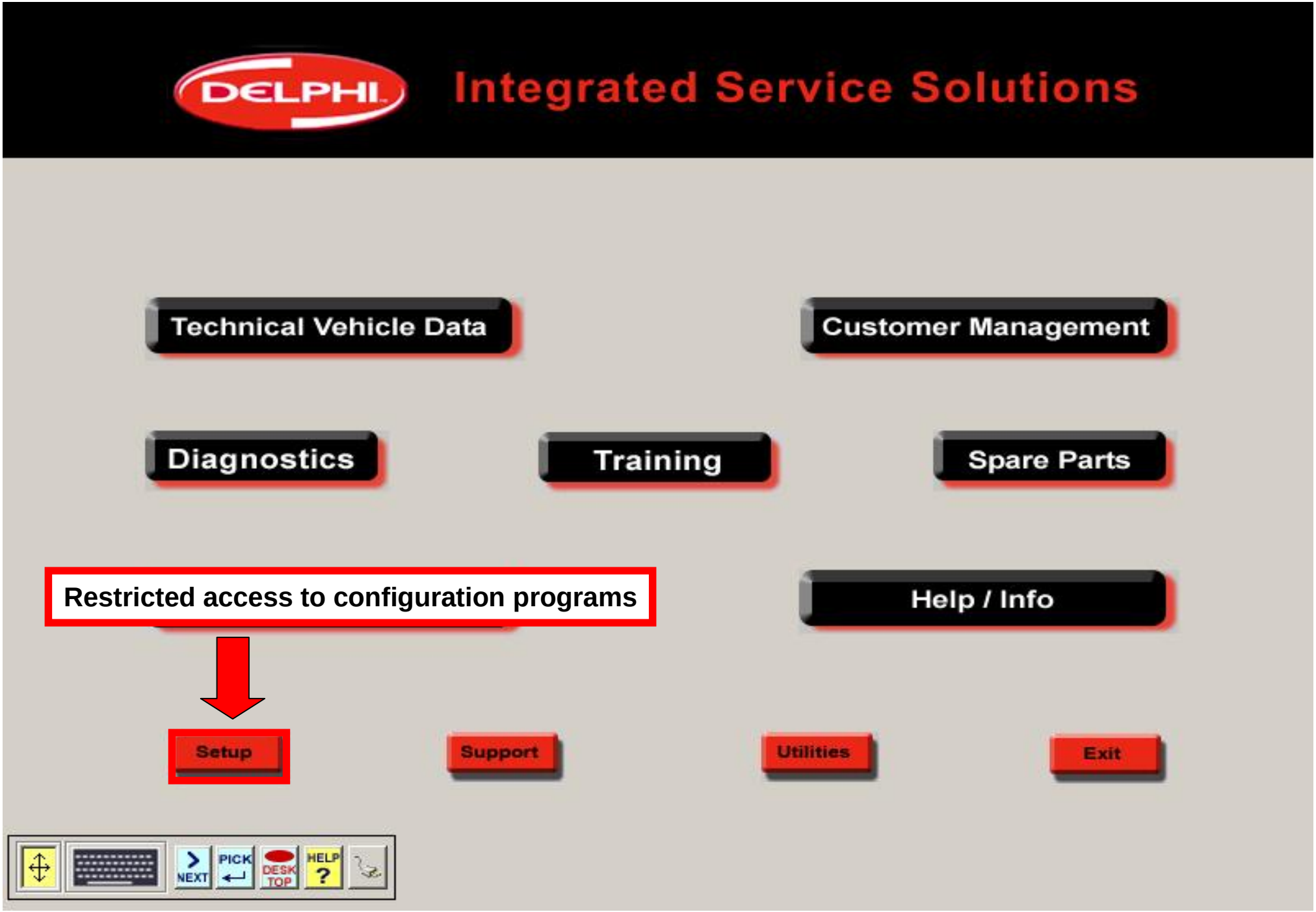

DELPHI
Integrated Service Solutions
Technical Vehicle Data
Customer Management
Diagnostics
Access to the optional supplementary Internet based System giving additional information on the operation And repair of components
Diagnostic Assistant
Help / Info
Setup
Support
Utilities
Exit
NEXT
PICK
DESK TOP
HELP

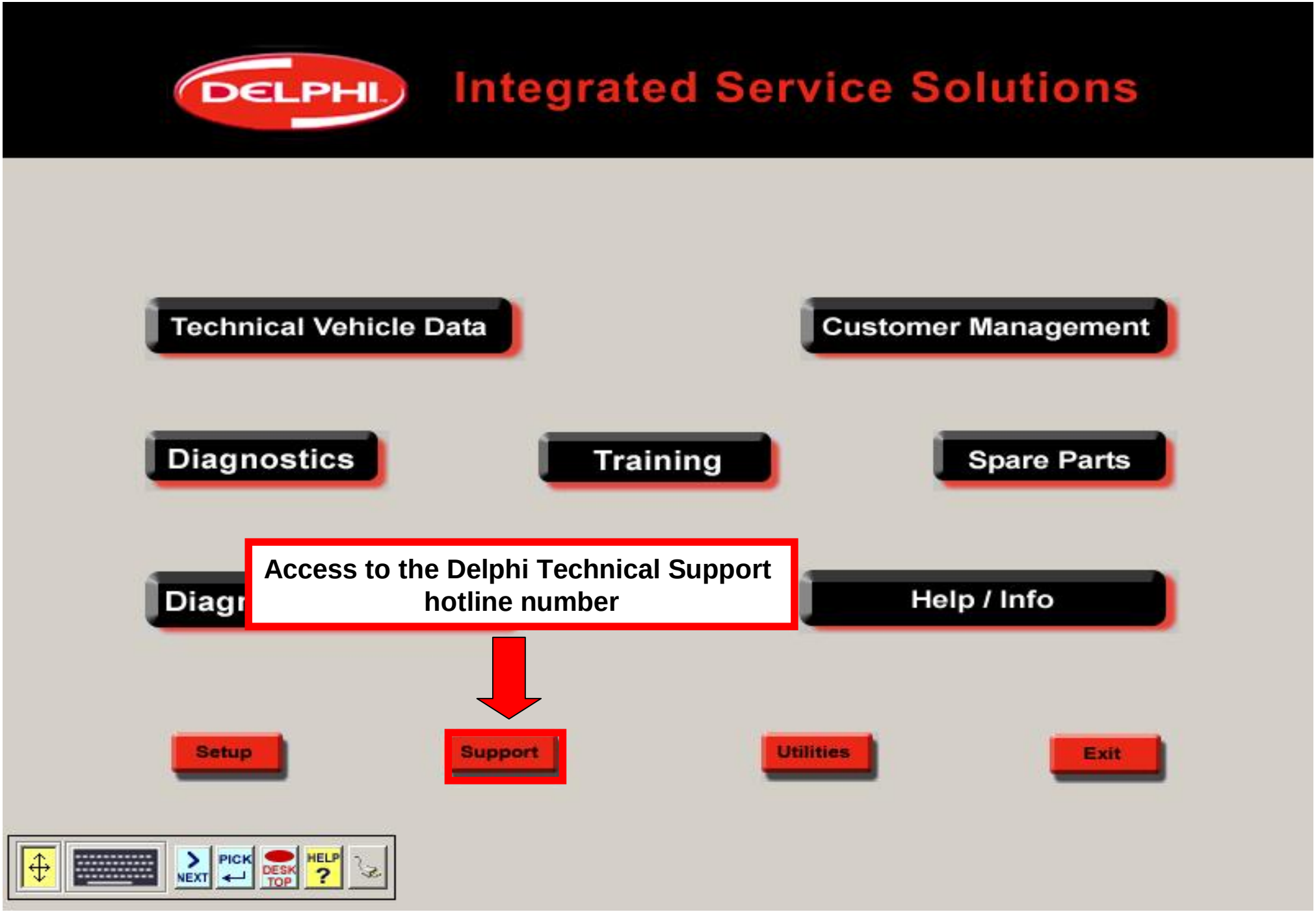

DELPHI
Integrated Service Solutions
Technical Vehicle Data
Customer Management
Diagnostics
Training
Spare Parts
Diagnostic Assistant
Help / Info
Access to the optional internet based training programs on the operation of automobile systems and components
Setup
Exit
NEXT
PICK
DESK TOP
HELP

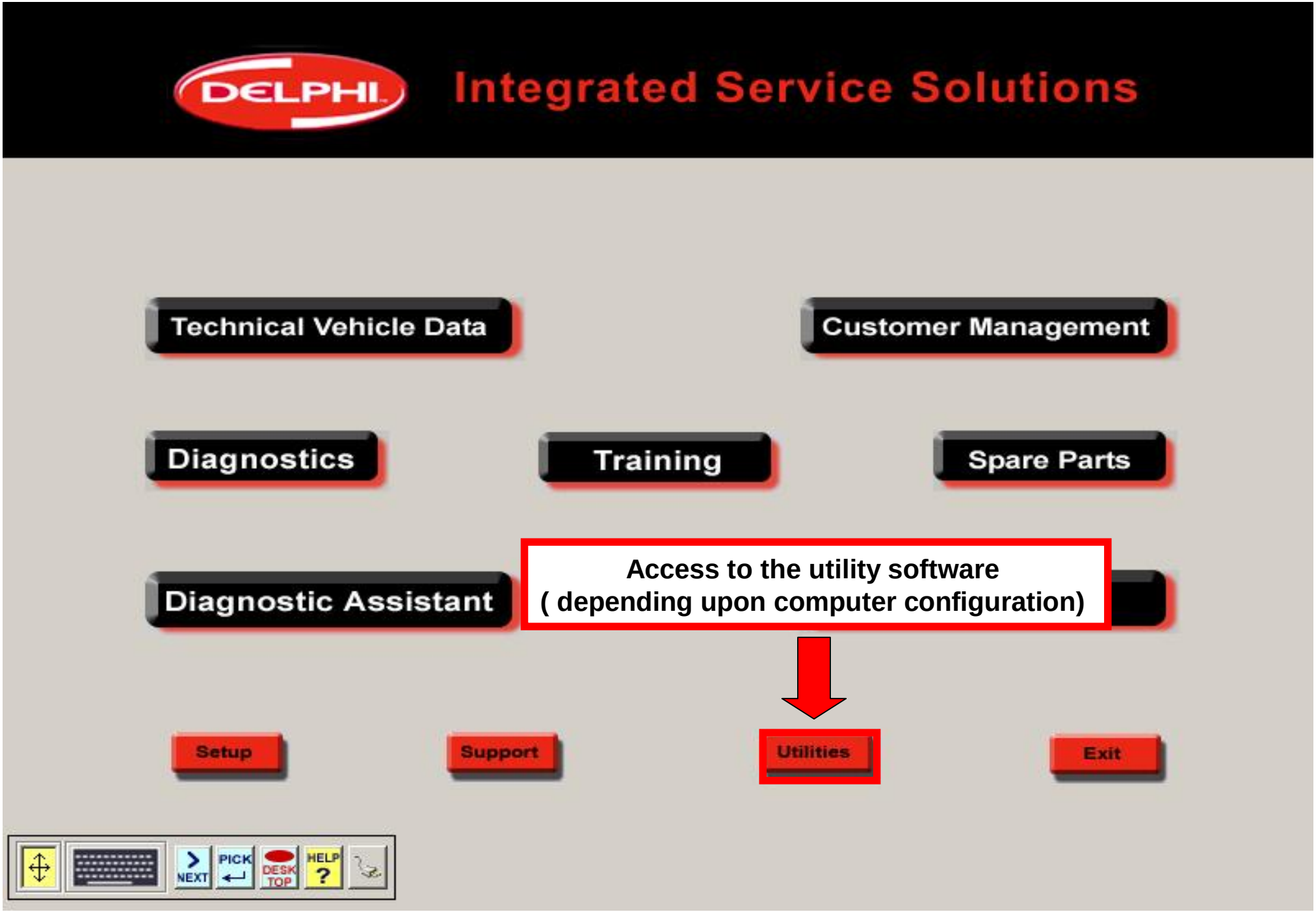

DELPHI
Integrated Service Solutions
Technical Vehicle Data
Customer Management
Diagnostics
Training
Parts
Access to the garage customer's management and invoicing systems
Diagnostic Assistant
Setup
Support
Utilities
Exit
NEXT
PICK
DESK TOP
HELP

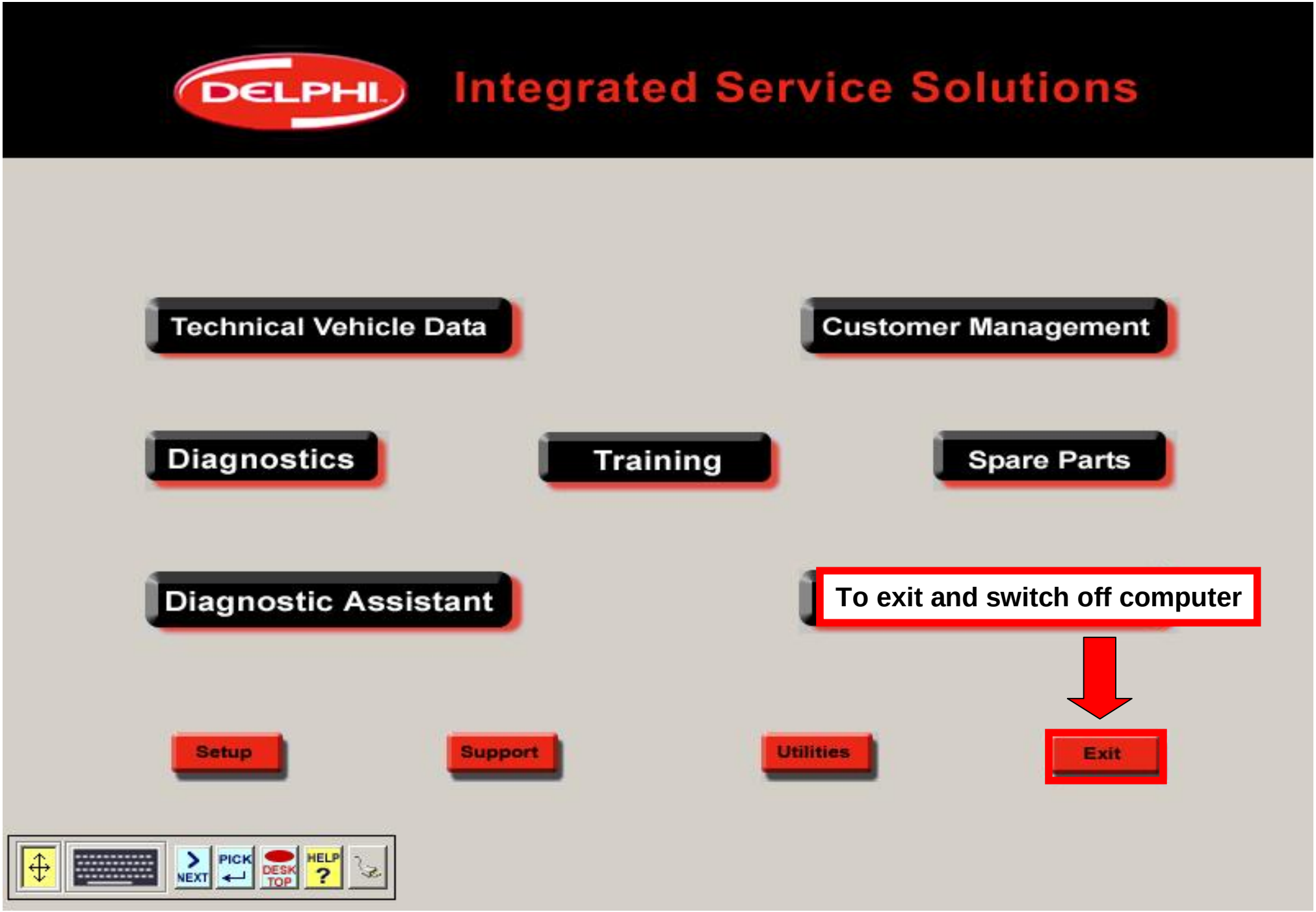

DELPHI
Integrated Service Solutions
Technical Vehicle Data
Customer Management
Dia
Access to the Delphi or your own
Parts catalogue locally or on the internet
Spare Parts
Diagnostic Assistant
Help / Info
Setup
Support
Utilities
Exit
NEXT
PICK
DESK TOP
HELP


DELPHI
Integrated Service Solutions
Technical Vehicle Data
Customer Management
Diagnostics
Training
Spare Parts
Access to the optional internet based Helpline
Help / Info
Setup
Support
Utilities
Exit
NEXT
PICK
DESK TOP
HELP


DELPHI
Integrated Service Solutions
Technical Vehicle Data
Customer Management
Diagnostics
Training
Spare Parts
Restricted access to configuration programs
Help / Info
Setup
Support
Utilities
Exit
NEXT
PICK
DESK TOP
HELP


DELPHI
Integrated Service Solutions
Technical Vehicle Data
Customer Management
Diagnostics
Training
Spare Parts
Diagr
Access to the Delphi Technical Support hotline number
Help / Info
Setup
Support
Utilities
Exit
NEXT
PICK
DESK TOP
HELP


DELPHI
Integrated Service Solutions
Technical Vehicle Data
Customer Management
Diagnostics
Training
Spare Parts
Diagnostic Assistant
Access to the utility software
( depending upon computer configuration)
Setup
Support
Utilities
Exit
NEXT
PICK
DESK TOP
HELP


DELPHI
Integrated Service Solutions
Technical Vehicle Data
Customer Management
Diagnostics
Training
Spare Parts
Diagnostic Assistant
To exit and switch off computer
Setup
Support
Utilities
Exit
NEXT
PICK
DESK TOP
HELP
?

DELPHI

# Integrated Service Solutions

Technical Vehicle Data

Customer Management

Diagnostics

Training

Spare Parts

Help / Info

**Onscreen keyboard and navigation menu.**
**Note! Can sometimes hide icons, always move (drag) and check behind it**

Setup

Support

Utilities

Exit

DELPHI

# Integrated Service Solutions

Technical Vehicle Data

Customer Management

Diagnostics

Training

Spare Parts

Diagnostic Assistant

Help / Info

**You move the navigation menu**
**By using the touch screen pen on the arrows**

Setup

Support

Utilities

Exit

DELPHI

# Integrated Service Solutions

Technical Vehicle Data

Customer Management

Diagnostics

Training

Spare Parts

Diagnostic Assistant

Help / Info

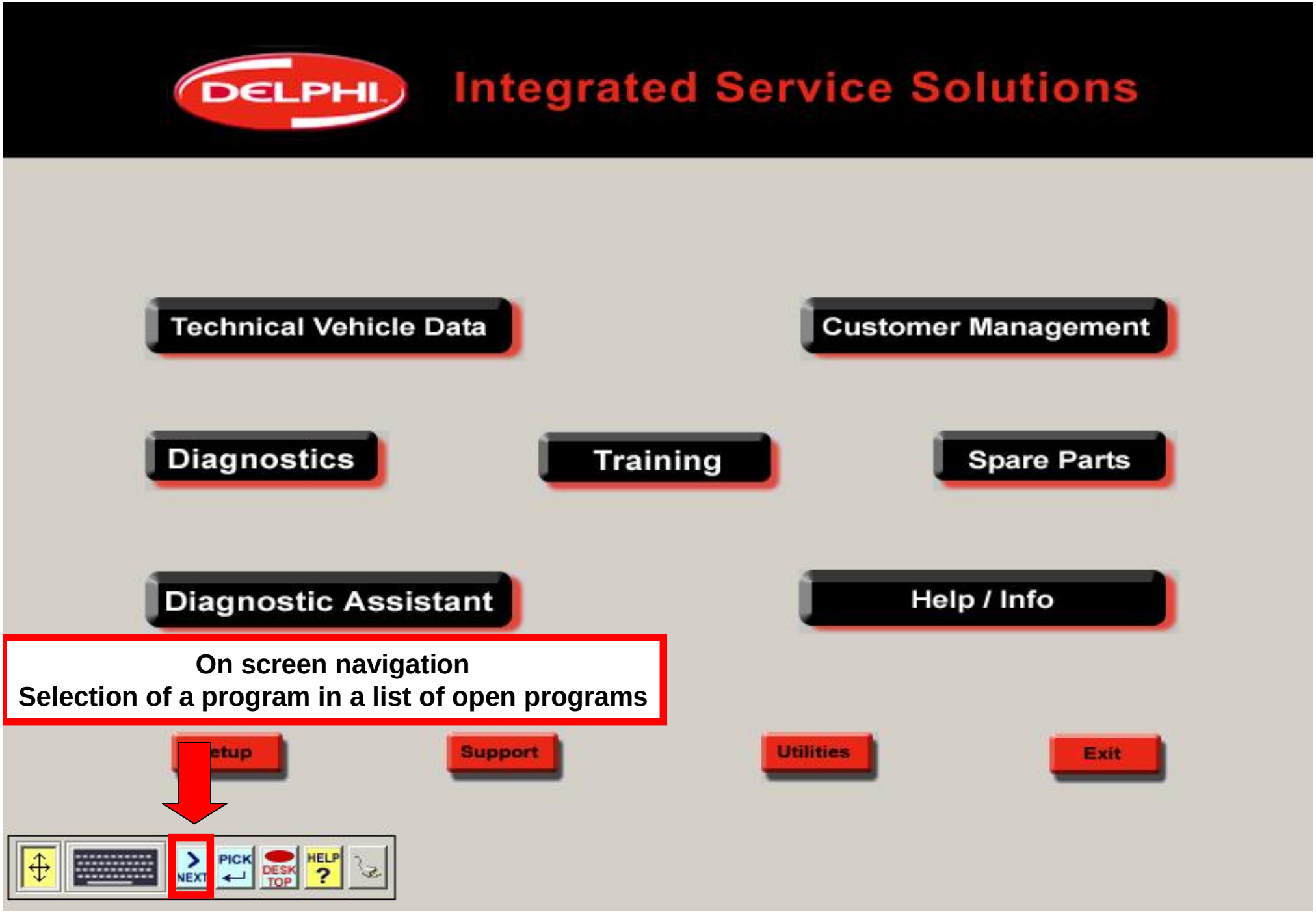
**On screen keyboard**
**double click with touchscreen pen**

Setup

Support

Utilities

Exit


DELPHI
Integrated Service Solutions
Technical Vehicle Data
Customer Management
Diagnostics
Training
Spare Parts
Diagnostic Assistant
Help / Info
On screen navigation
Selection of a program in a list of open programs
etup
Support
Utilities
Exit
NEXT
PICK
DESK TOP
HELP

DELPHI

# Integrated Service Solutions

Technical Vehicle Data

Customer Management

Diagnostics

Training

Spare Parts

Diagnostic Assistant

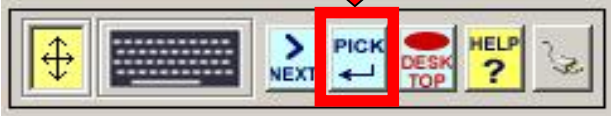
Help / Info

**On screen navigation**
**Selection of an open program**

Support

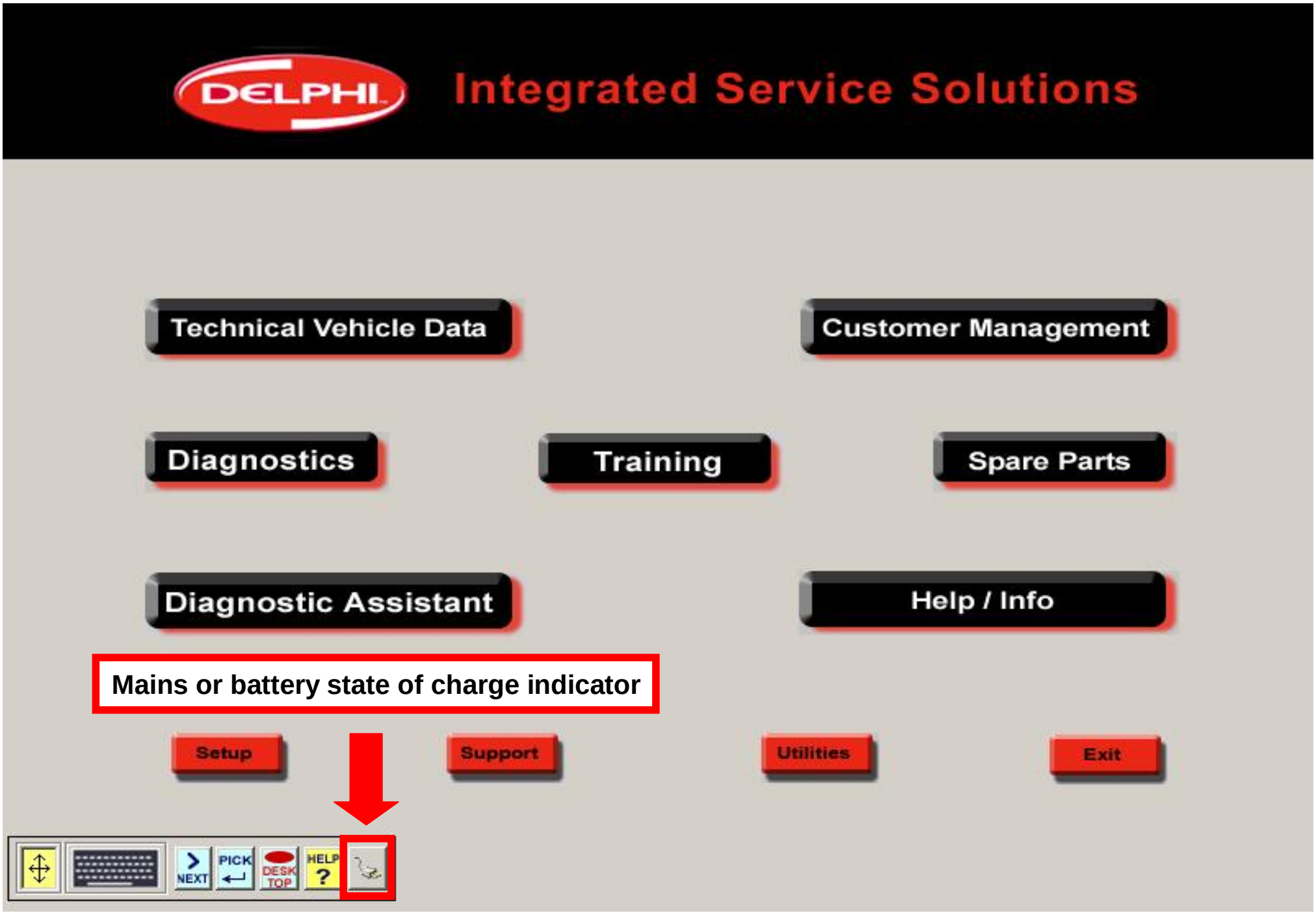
Utilities

Exit

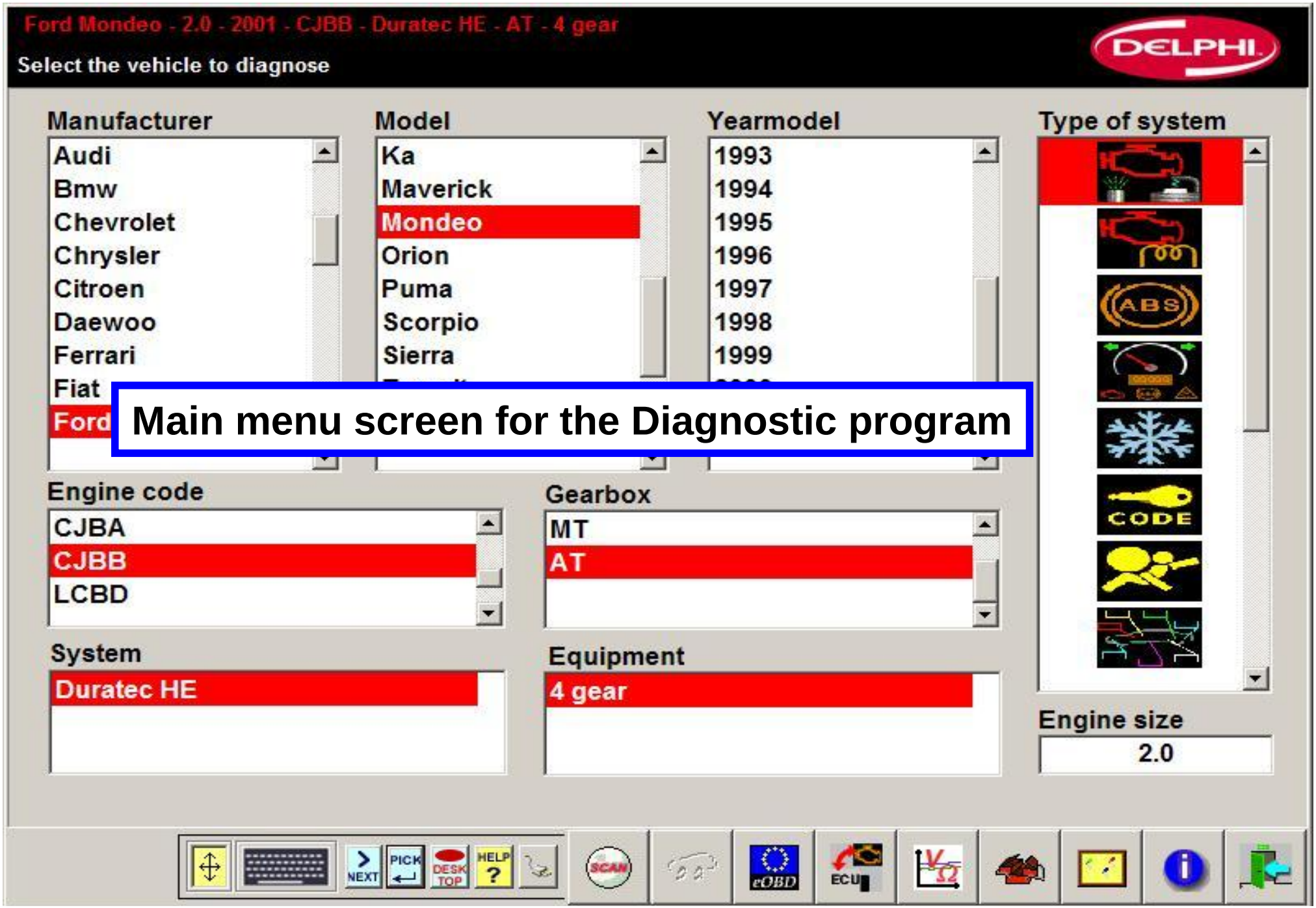


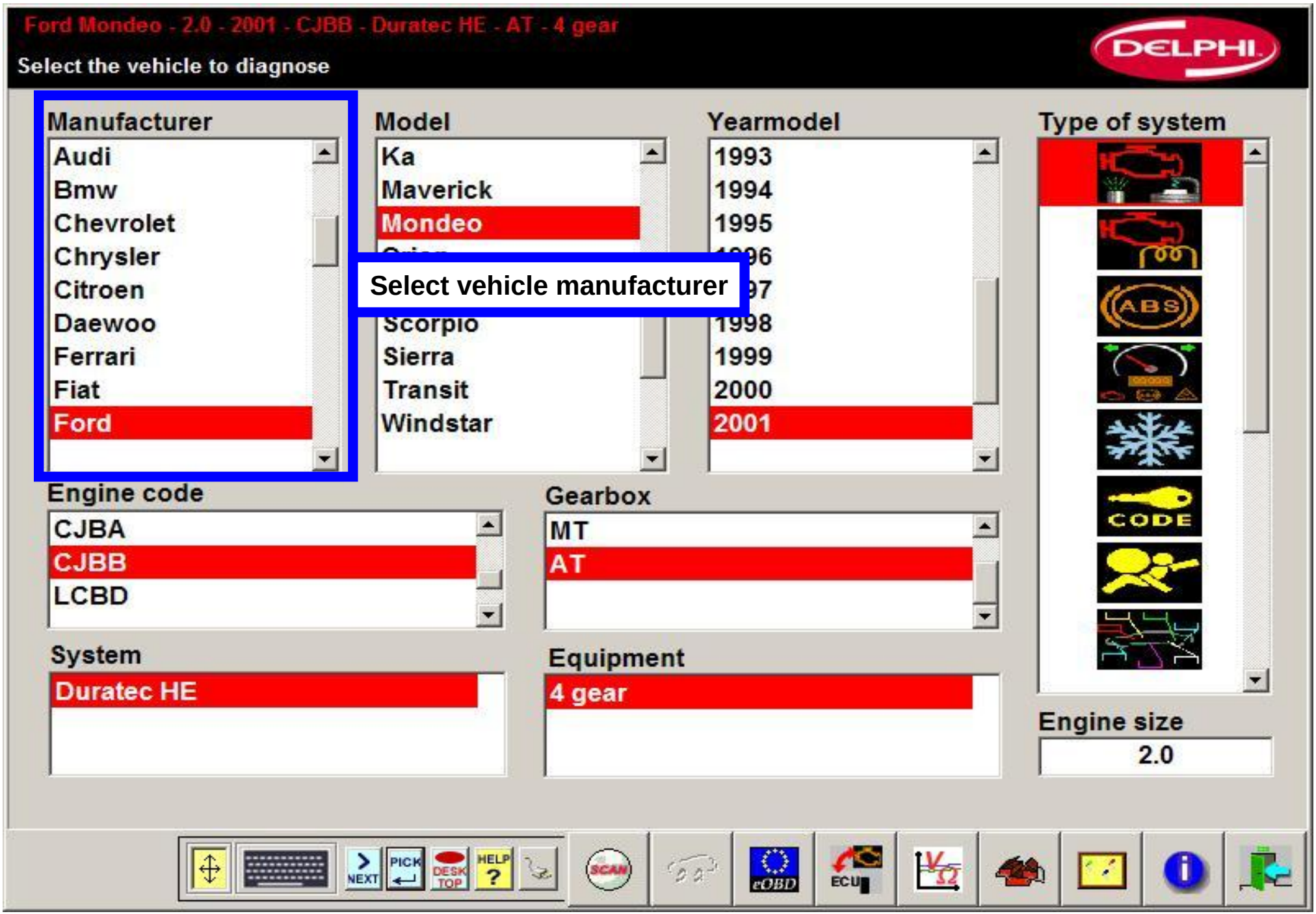
DELPHI
Integrated Service Solutions
Technical Vehicle Data
Customer Management
Diagnostics
Training
Spare Parts
Diagnostic Assistant
Help / Info
On screen navigation
Return to the principal menu in any program
Setup
Support
Utilities
Exit
NEXT
PICK
DESK TOP
HELP

DELPHI
Integrated Service Solutions
Technical Vehicle Data
Customer Management
Diagnostics
Training
Spare Parts
Diagnostic Assistant
Help / Info
On screen navigation
Help menu
Setup
Support
Utilities
Exit
NEXT
PICK
HELP
?


DELPHI
Integrated Service Solutions
Technical Vehicle Data
Customer Management
Diagnostics
Training
Spare Parts
Diagnostic Assistant
Help / Info
Mains or battery state of charge indicator
Setup
Support
Utilities
Exit
NEXT
PICK
DESK TOP
HELP

# DIAGNOSTIC PROGRAM


Ford Mondeo - 2.0 - 2001 - CJBB - Duratec HE - AT - 4 gear
Select the vehicle to diagnose
DELPHI
Manufacturer
Audi
Bmw
Chevrolet
Chrysler
Citroen
Daewoo
Ferrari
Fiat
Ford
Model
Ka
Maverick
Mondeo
Orion
Puma
Scorpio
Sierra
Yearmodel
1993
1994
1995
1996
1997
1998
1999
Type of system
ABS
CODE
Main menu screen for the Diagnostic program
Engine code
CJBA
CJBB
LCBD
Gearbox
MT
AT
System
Duratec HE
Equipment
4 gear
Engine size
2.0
NEXT
PICK
DESK TOP
HELP
SCAN
eOBD
ECU


Ford Mondeo - 2.0 - 2001 - CJBB - Duratec HE - AT - 4 gear
Select the vehicle to diagnose
DELPHI
Manufacturer
Audi
Bmw
Chevrolet
Chrysler
Citroen
Daewoo
Ferrari
Fiat
Ford
Model
Ka
Maverick
Mondeo
Scorpio
Sierra
Transit
Windstar
Yearmodel
1993
1994
1995
1998
1999
2000
2001
Select vehicle manufacturer
Type of system
ABS
CODE
Engine code
CJBA
CJBB
LCBD
Gearbox
MT
AT
System
Duratec HE
Equipment
4 gear
Engine size
2.0
NEXT
PICK
DESK TOP
HELP
SCAN
eOBD
ECU

Ford Mondeo - 2.0 - 2001 - CJBB - Duratec HE - AT - 4 gear

Select the vehicle to diagnose

DELPHI

**Manufacturer**

- Audi
- Bmw
- Chevrolet
- Chrysler
- Citroen
- Daewoo
- Ferrari
- Fiat
- **Ford**

**Model**

- Ka
- Maverick
- **Mondeo**
- Orion
- Puma
- Scorpio
- Sierra
- Transit
- Windstar

**Yearmodel**

- 1993
- 1994
- 1995
- 1998
- 1999
- 2000
- **2001**

Select the model

**Type of system**

**Engine code**

- CJBA
- **CJBB**
- LCBD

**Gearbox**

- MT
- **AT**

**System**

- **Duratec HE**

**Equipment**

- **4 gear**

**Engine size**

2.0

Ford Mondeo - 2.0 - 2001 - CJBB - Duratec HE - AT - 4 gear

Select the vehicle to diagnose

DELPHI

**Manufacturer**

- Audi
- Bmw
- Chevrolet
- Chrysler
- Citroen
- Daewoo
- Ferrari
- Fiat
- **Ford**

**Model**

- Ka
- Maverick
- **Mondeo**
- Scorpio
- Sierra
- Transit
- Windstar

**Yearmodel**

- 1993
- 1994
- 1995
- 1996
- 1997
- 1998
- 1999
- 2000
- **2001**

Select the model year

**Type of system**

**Engine code**

- CJBA
- **CJBB**
- LCBD

**Gearbox**

- MT
- **AT**

**System**

- **Duratec HE**

**Equipment**

- **4 gear**

**Engine size**

2.0

NEXT PICK DESK TOP HELP ? SCAN eOBD ECU

Ford Mondeo - 2.0 - 2001 - CJBB - Duratec HE - AT - 4 gear

Select the vehicle to diagnose

DELPHI

**Manufacturer**

- Audi
- Bmw
- Chevrolet
- Chrysler
- Citroen
- Daewoo
- Ferrari
- Fiat
- Ford

**Model**

- Ka
- Maverick
- Mondeo
- Orion
- Puma
- Scorpio
- Sierra
- Transit
- Windstar

**Engine code**

- CJBA
- CJBB
- LCBD

**Ge**

- M
- A

**System**

- Duratec HE

**Ec**

- 4 gear

Select the system for evaluation:

- Petrol Engine
- Diesel engine
- A.B.S.
- Instruments
- Air Conditioning
- Key code
- S.R.S. (Airbags)
- Multiplex

**Type of system**

**Engine size**

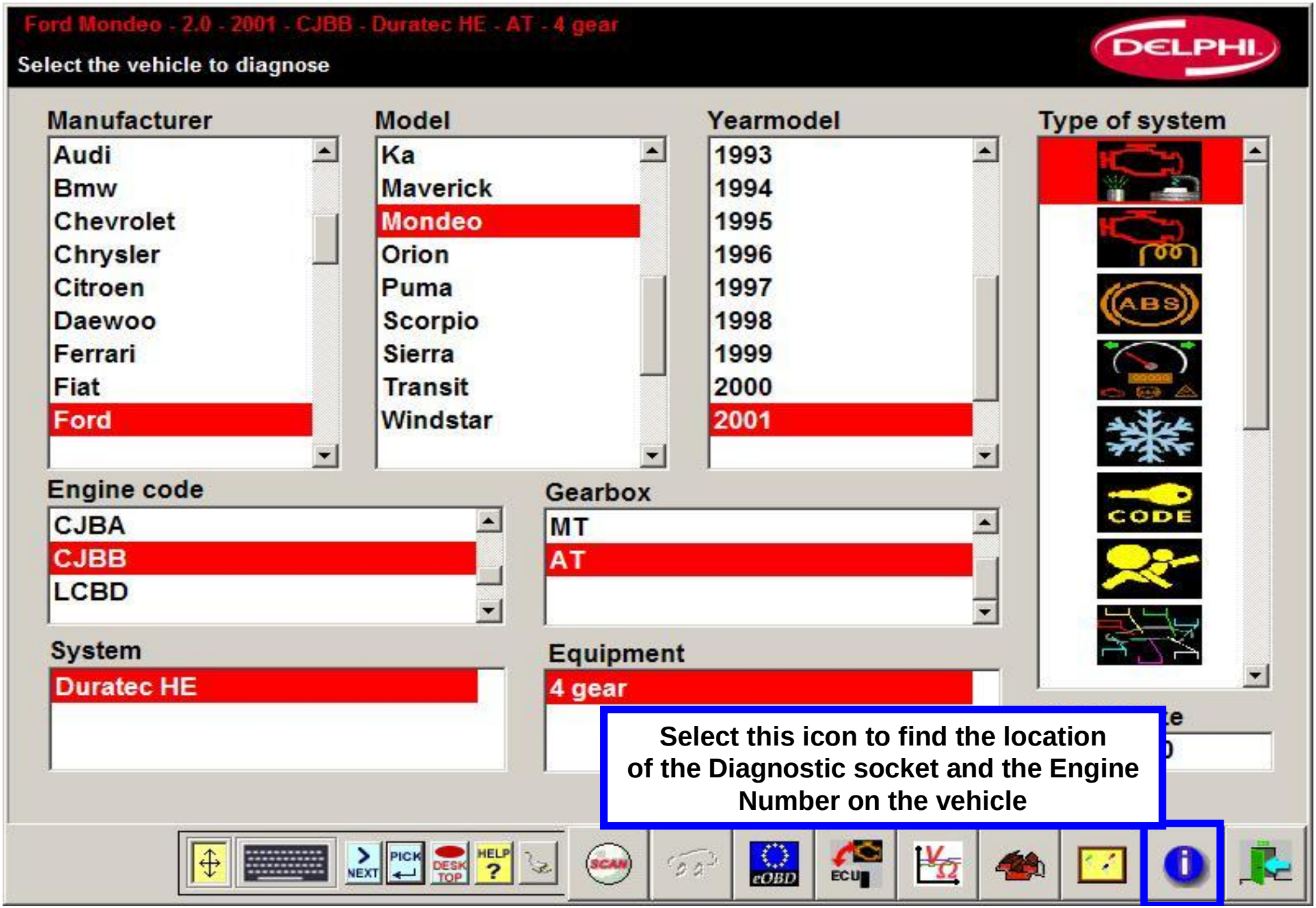
2.0

NEXT PICK DESK TOP HELP ? SCAN eOBD ECU

# Definition of the icons

Definition of the icons used in the diagnostic tool

| | |
|---|---|
| | **Engine management, Ignition and Injection** |
| | **Diesel Engine Managenment** |
| | **A.B.S. or E.S.P systems** |
| | **Airbag or S.R.S.** |
| | **Air conditioning or climate control** |
| | **Diagnosis and equipment activation** |
| | **Anti-theft system and key programming** |
| | **Cabin E.C.U's and multiplexed system** |
| | **Electronic management of automatic gearbox** |


Ford Mondeo - 2.0 - 2001 - CJBB - Duratec HE - AT - 4 gear
Select the vehicle to diagnose
DELPHI
Manufacturer
Audi
Bmw
Chevrolet
Chrysler
Citroen
Daewoo
Ferrari
Fiat
Ford
Model
Ka
Maverick
Mondeo
Orion
Puma
Scorpio
Sierra
Transit
Windstar
Yearmodel
1993
1994
1995
1996
1997
1998
1999
2000
2001
Type of system
ABS
CODE
Engine code
CJBA
CJBB
LCBD
Gearbox
MT
AT
System
Duratec HE
Equipment
4 gear
Select this icon to find the location of the Diagnostic socket and the Engine Number on the vehicle
NEXT
PICK
DESK TOP
HELP
SCAN
eOBD
ECU

Ford Mondeo - 2.0 - 2001 - CJBB - Duratec HE - AT - 4 gear

Select the vehicle to diagnose

DELPHI

Manufacturer

Audi
Bmw
Chevrole
Chrysler
Citroen
Daewoo
Ferrari
Fiat
Ford

Model

Ka

Yearmodel

1993

Type of system

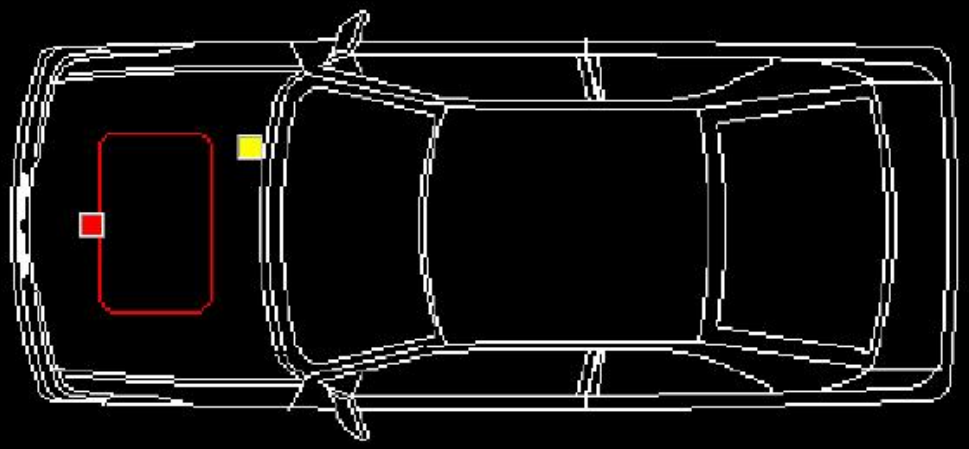
Engine co

CJBA
CJBB
LCBD

System

Duratec H

Information



Engine code: AR 33.201

Diagnostic socket: OBD Fiat

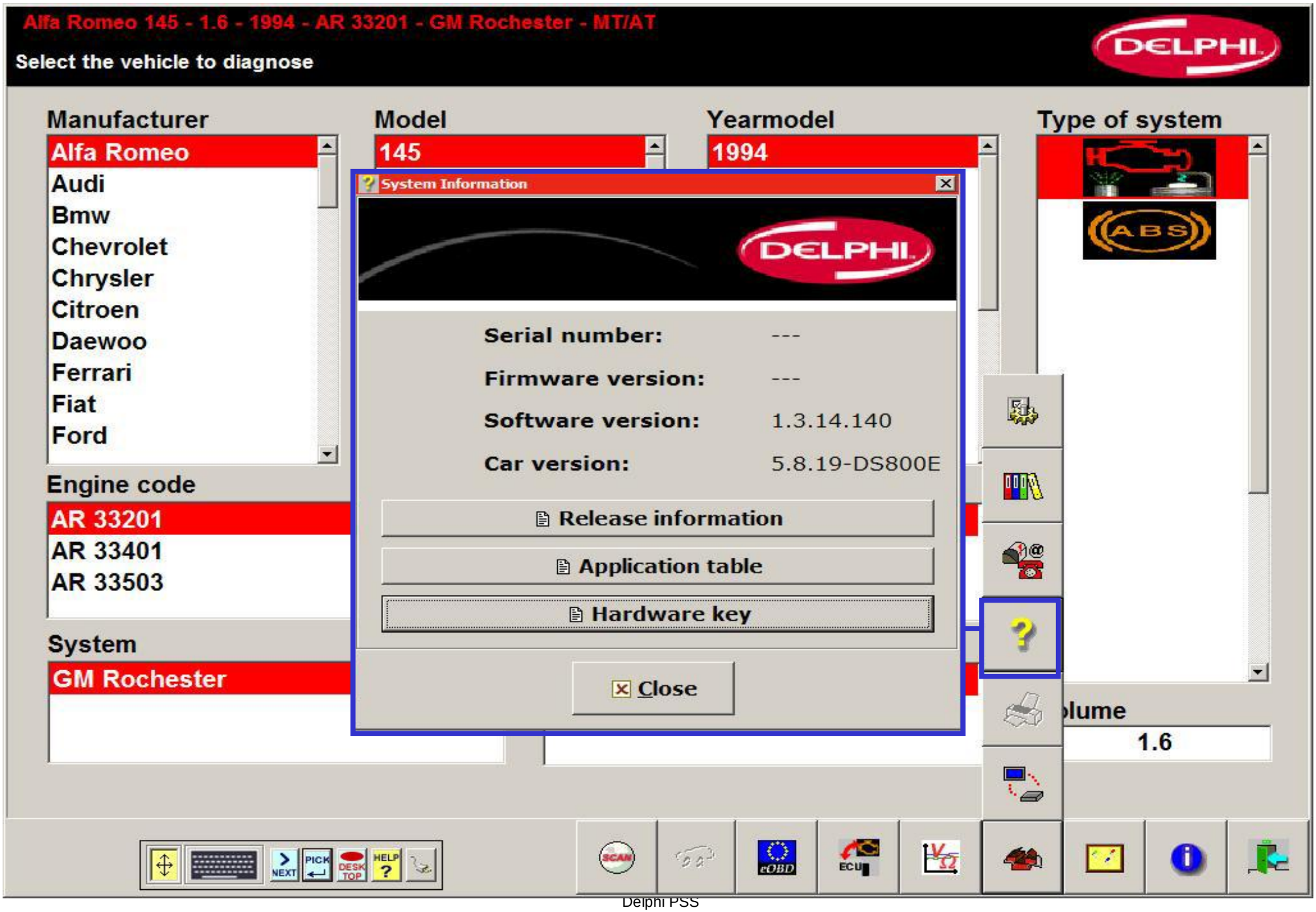
Close

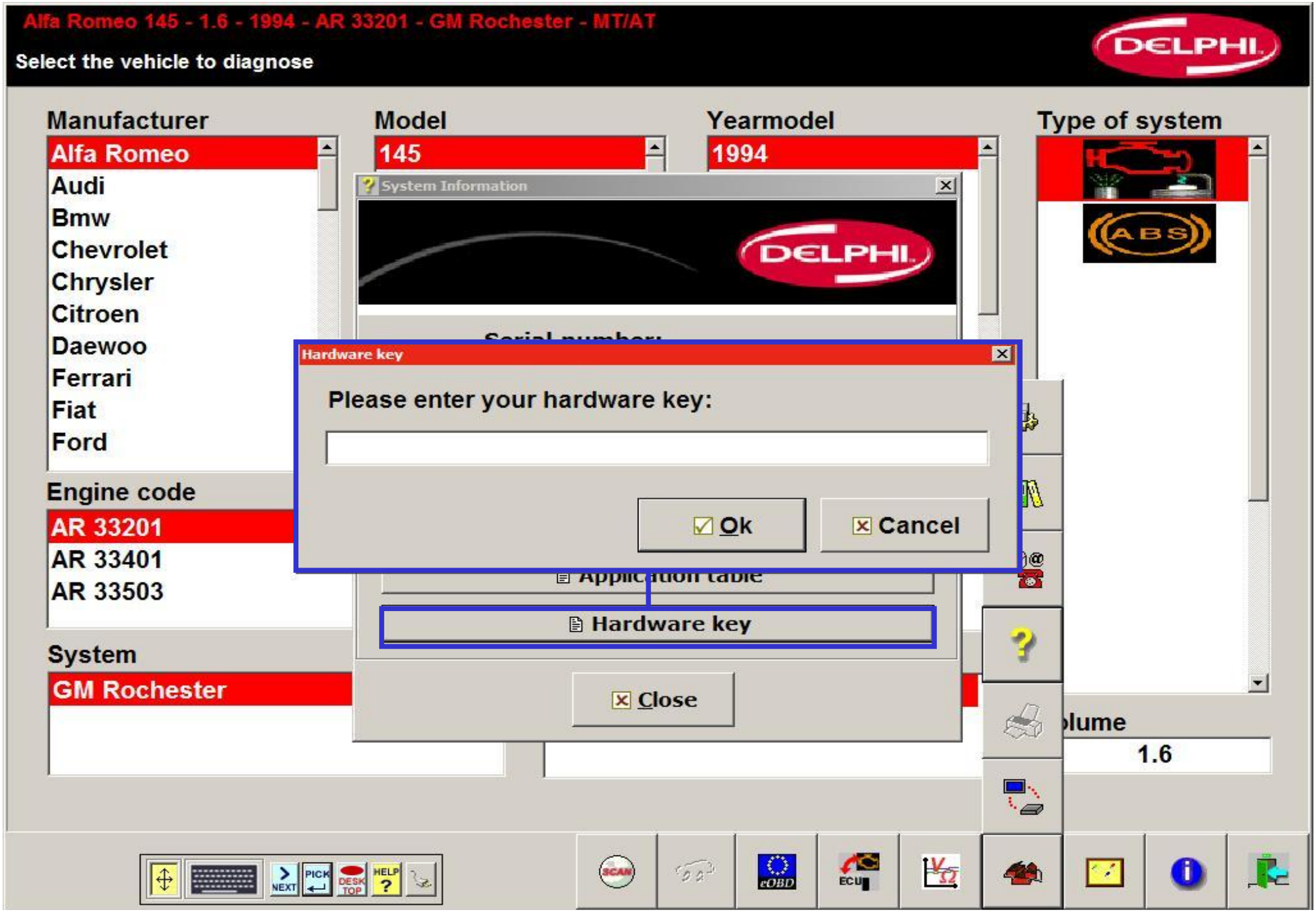
Engine size

2.0

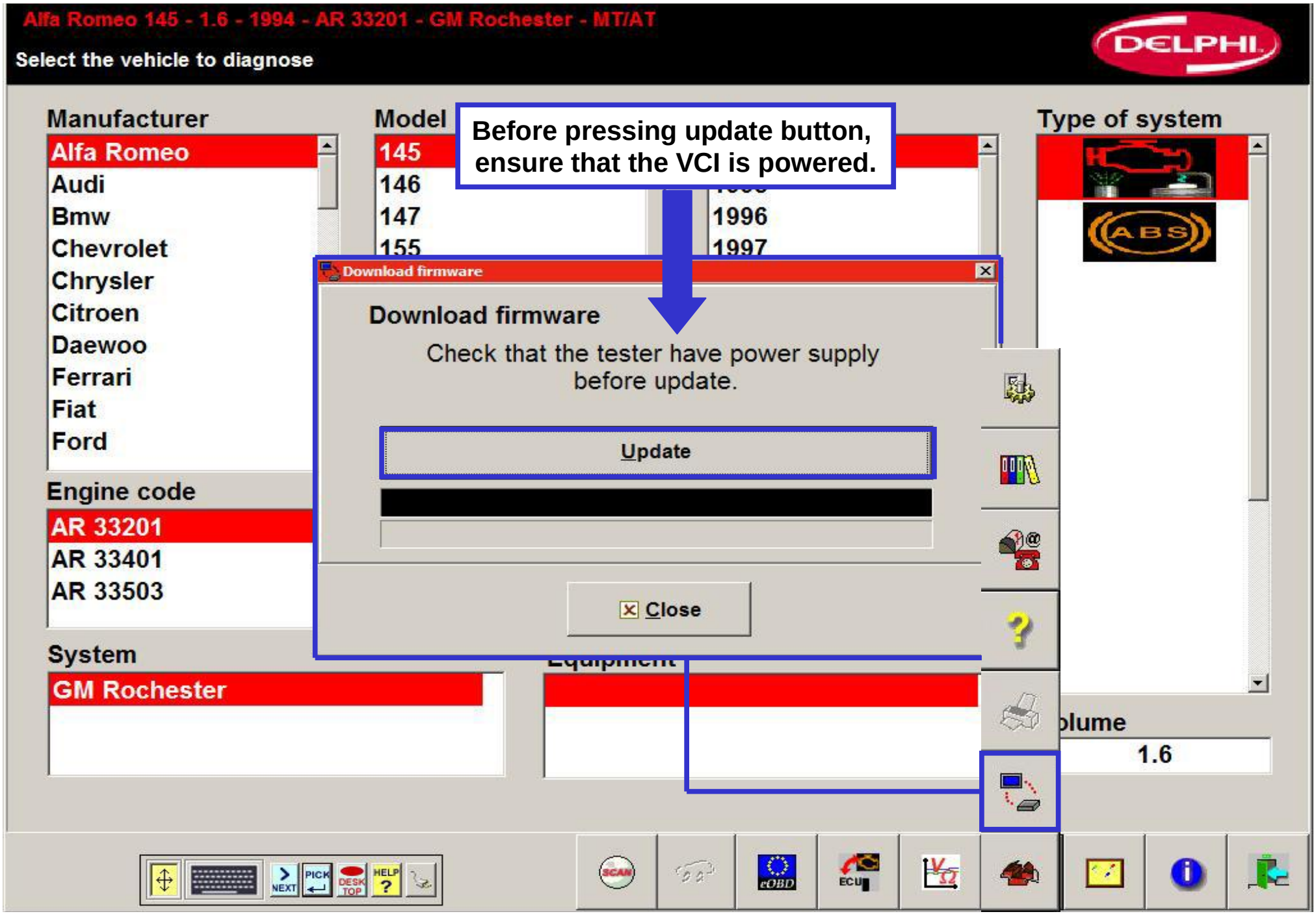
NEXT PICK DESK TOP HELP SCAN eOBD ECU

# HARDWARE KEY INSERTION

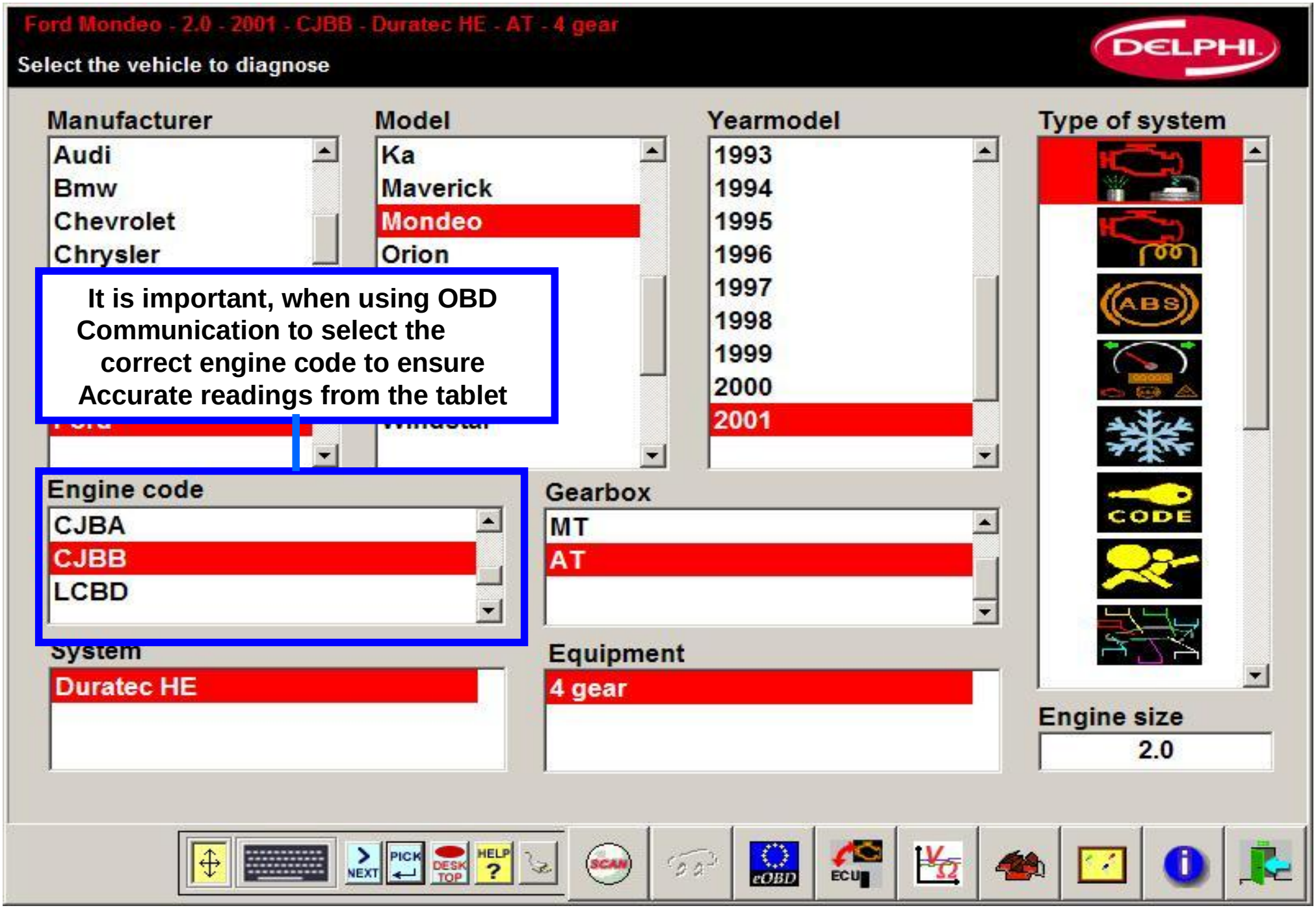

Alfa Romeo 145 - 1.6 - 1994 - AR 33201 - GM Rochester - MT/AT
Select the vehicle to diagnose
DELPHI
Manufacturer
Alfa Romeo
Audi
Bmw
Chevrolet
Chrysler
Citroen
Daewoo
Ferrari
Fiat
Ford
Model
145
Yearmodel
1994
Type of system
ABS
Engine code
AR 33201
AR 33401
AR 33503
System
GM Rochester
1.6
System Information
DELPHI
Serial number: ---
Firmware version: ---
Software version: 1.3.14.140
Car version: 5.8.19-DS800E
Release information
Application table
Hardware key
Close
NEXT
PICK
DESK TOP
HELP
SCAN
eOBD
ECU

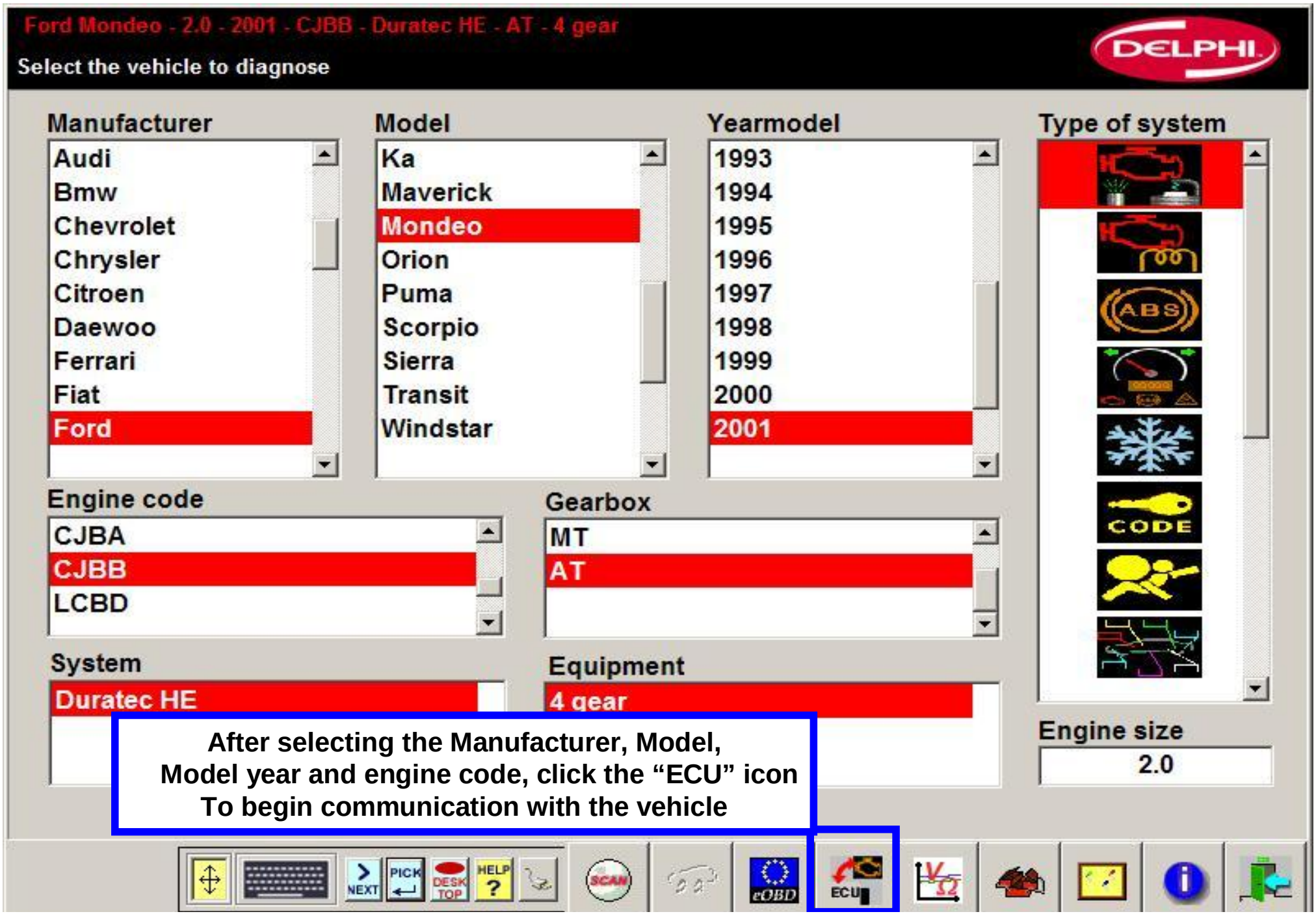

Alfa Romeo 145 - 1.6 - 1994 - AR 33201 - GM Rochester - MT/AT
Select the vehicle to diagnose
DELPHI
Manufacturer
Alfa Romeo
Audi
Bmw
Chevrolet
Chrysler
Citroen
Daewoo
Ferrari
Fiat
Ford
Model
145
Yearmodel
1994
Type of system
ABS
Engine code
AR 33201
AR 33401
AR 33503
System
GM Rochester
System Information
DELPHI
Application table
Hardware key
Close
Hardware key
Please enter your hardware key:
Ok
Cancel
lume
1.6
NEXT
PICK
DESK TOP
HELP
SCAN
eOBD
ECU

# FIRMWARE UPDATE

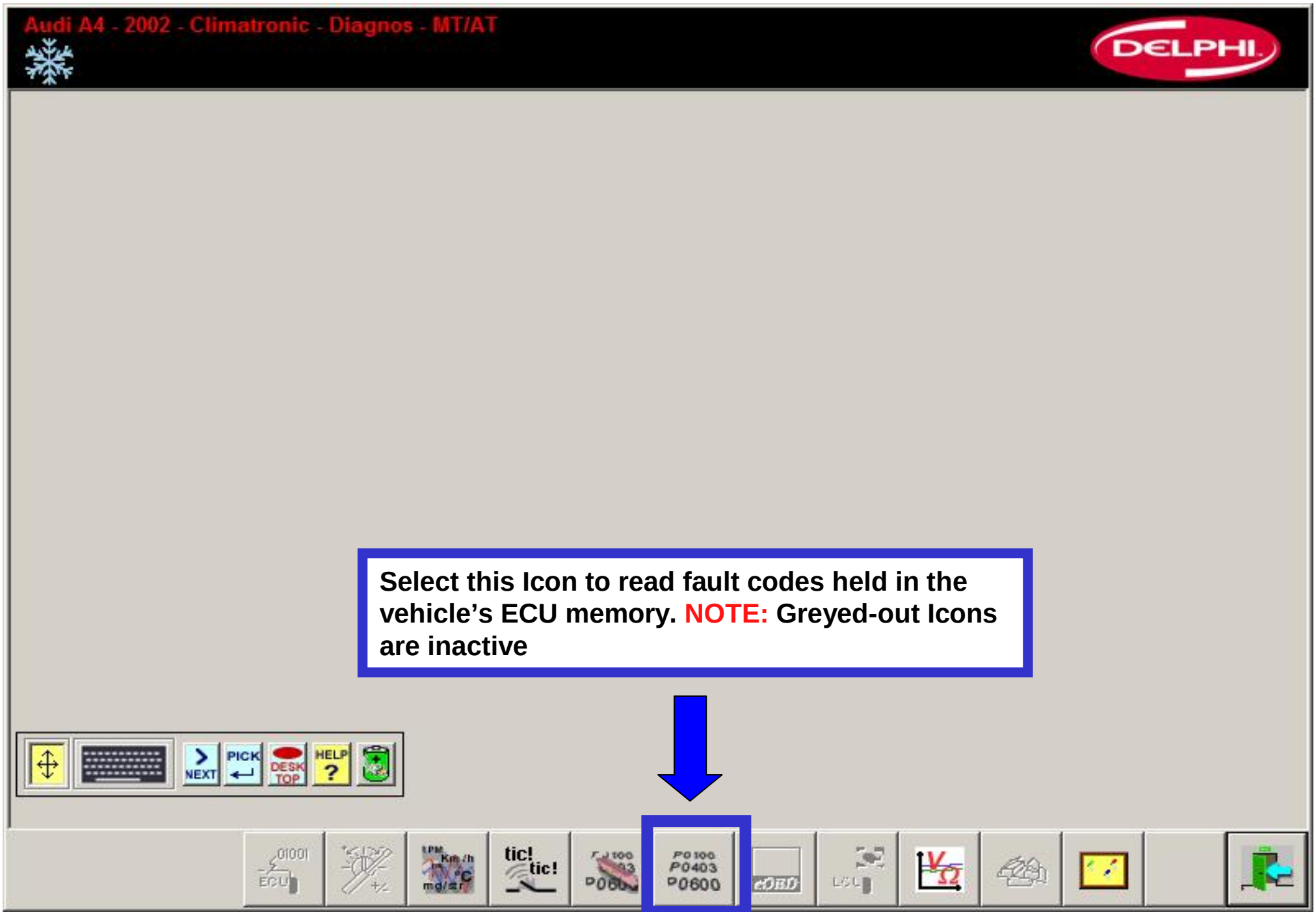

Alfa Romeo 145 - 1.6 - 1994 - AR 33201 - GM Rochester - MT/AT
Select the vehicle to diagnose
DELPHI
Manufacturer
Alfa Romeo
Audi
Bmw
Chevrolet
Chrysler
Citroen
Daewoo
Ferrari
Fiat
Ford
Model
145
146
147
155
1996
1997
Type of system
ABS
Before pressing update button, ensure that the VCI is powered.
Download firmware
Download firmware
Check that the tester have power supply before update.
Update
Close
Engine code
AR 33201
AR 33401
AR 33503
System
GM Rochester
Equipment
1.6
NEXT
PICK
DESK TOP
HELP
SCAN
eOBD
ECU

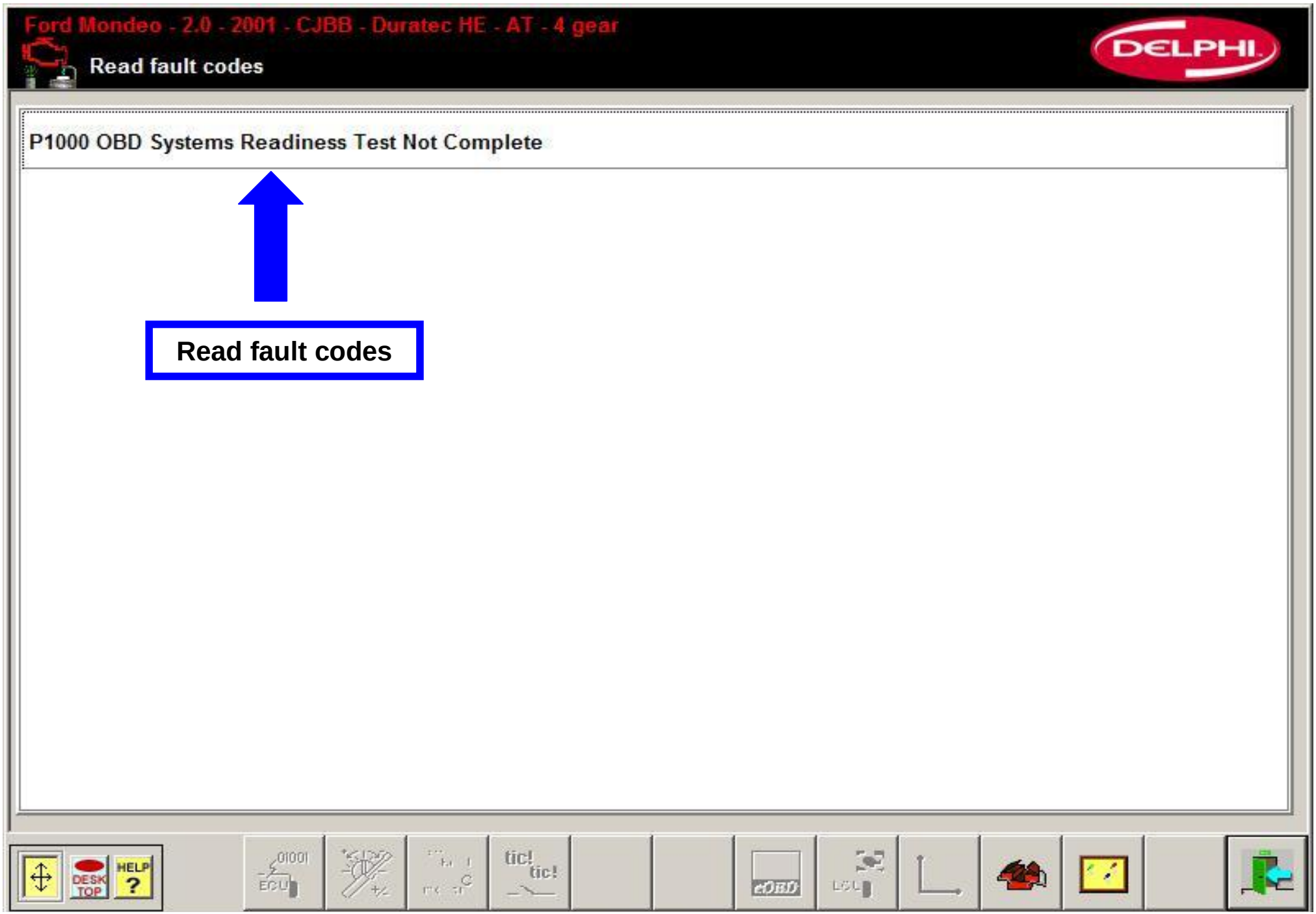
# OBD COMMUNICATION

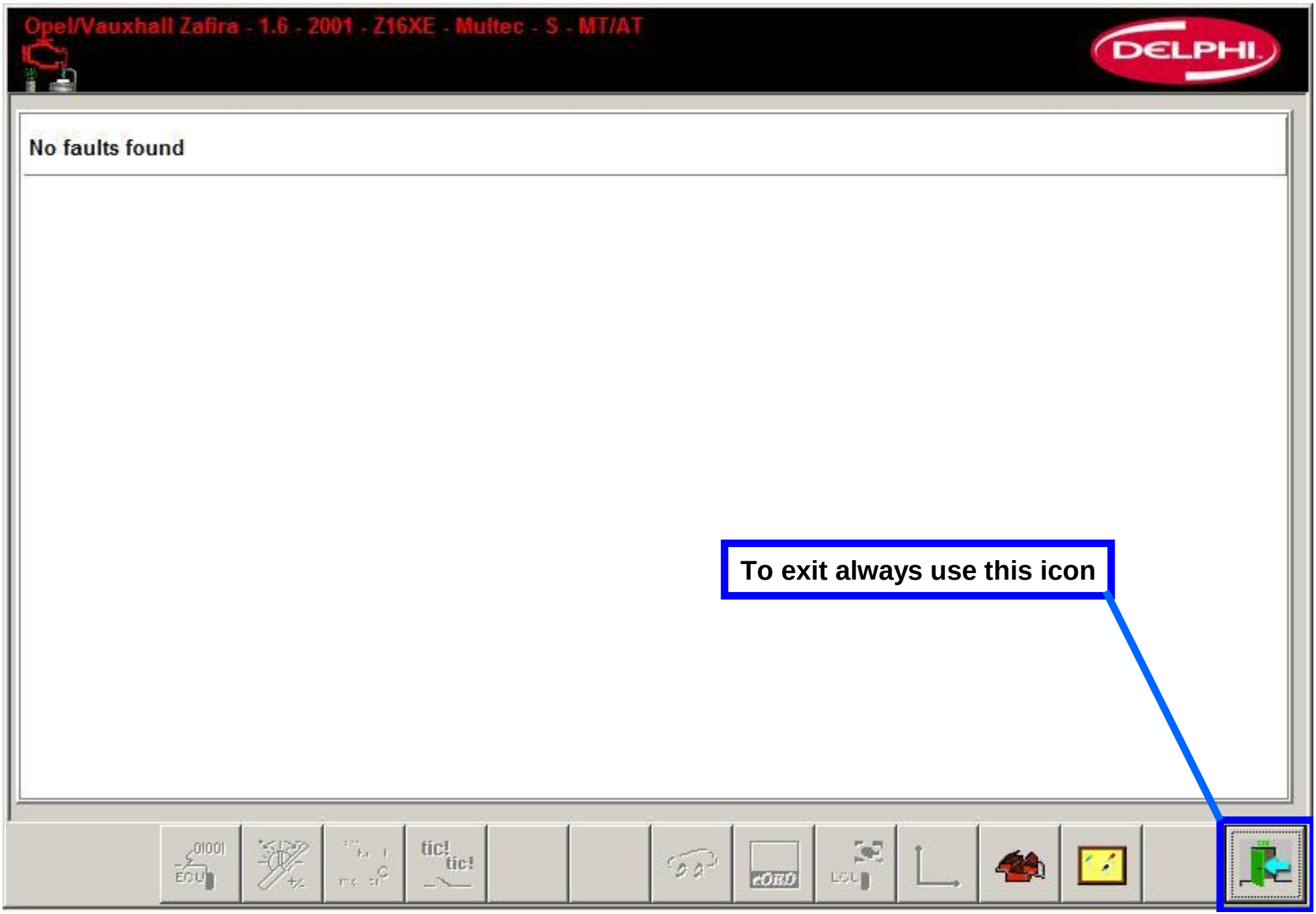

Ford Mondeo - 2.0 - 2001 - CJBB - Duratec HE - AT - 4 gear
Select the vehicle to diagnose
DELPHI
Manufacturer
Audi
Bmw
Chevrolet
Chrysler
Model
Ka
Maverick
Mondeo
Orion
Yearmodel
1993
1994
1995
1996
1997
1998
1999
2000
2001
Type of system
ABS
CODE
It is important, when using OBD Communication to select the correct engine code to ensure Accurate readings from the tablet
Engine code
CJBA
CJBB
LCBD
Gearbox
MT
AT
System
Duratec HE
Equipment
4 gear
Engine size
2.0
NEXT
PICK
DESK TOP
HELP
SCAN
eOBD
ECU

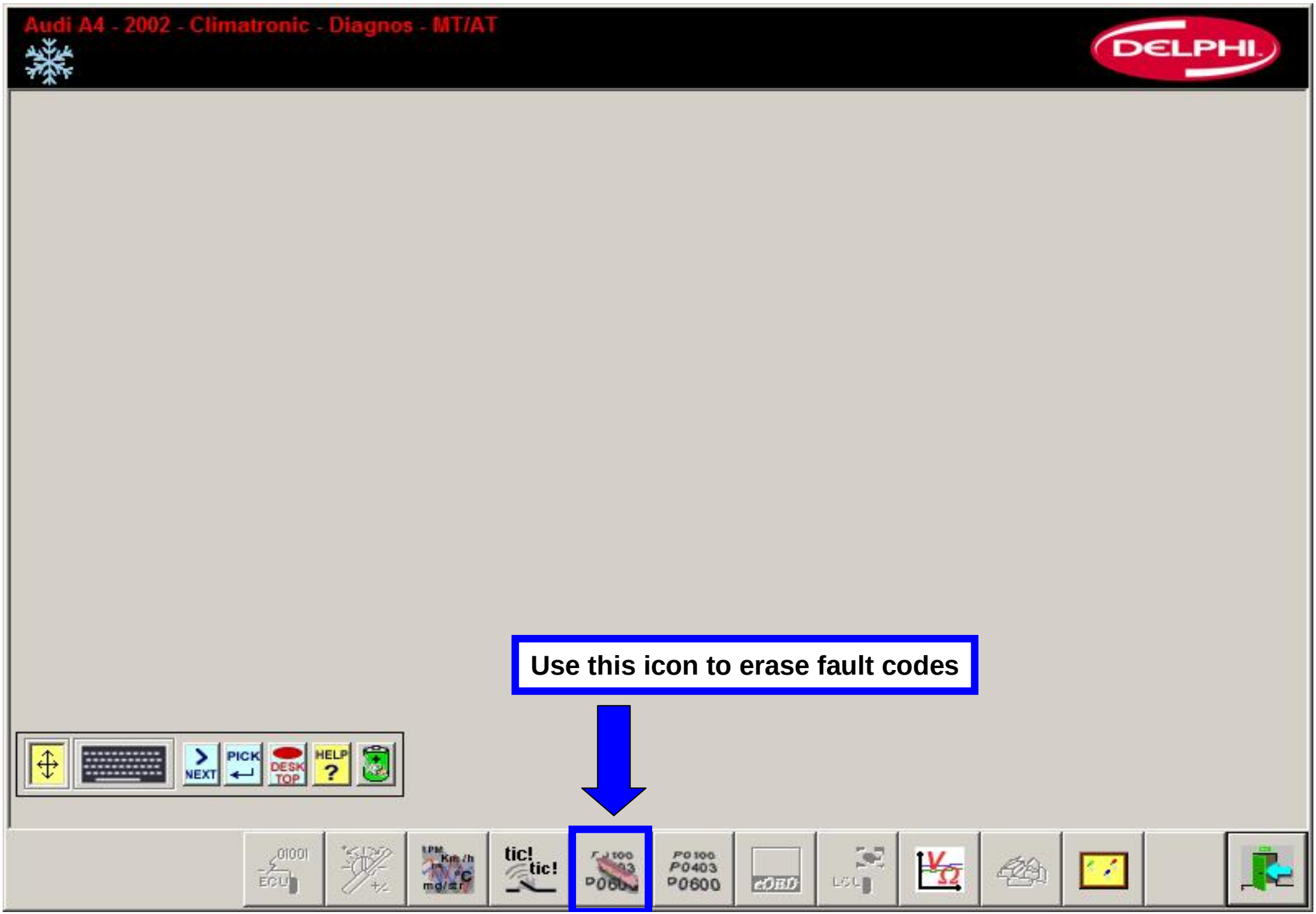

Ford Mondeo - 2.0 - 2001 - CJBB - Duratec HE - AT - 4 gear
Select the vehicle to diagnose
DELPHI
Manufacturer
Audi
Bmw
Chevrolet
Chrysler
Citroen
Daewoo
Ferrari
Fiat
Ford
Model
Ka
Maverick
Mondeo
Orion
Puma
Scorpio
Sierra
Transit
Windstar
Yearmodel
1993
1994
1995
1996
1997
1998
1999
2000
2001
Type of system
ABS
CODE
Engine code
CJBA
CJBB
LCBD
Gearbox
MT
AT
System
Duratec HE
Equipment
4 gear
Engine size
2.0
After selecting the Manufacturer, Model,
Model year and engine code, click the “ECU” icon
To begin communication with the vehicle
NEXT
PICK
DESK TOP
HELP
SCAN
eOBD
ECU

# READ AND ERASE FAULT CODES (OBD)

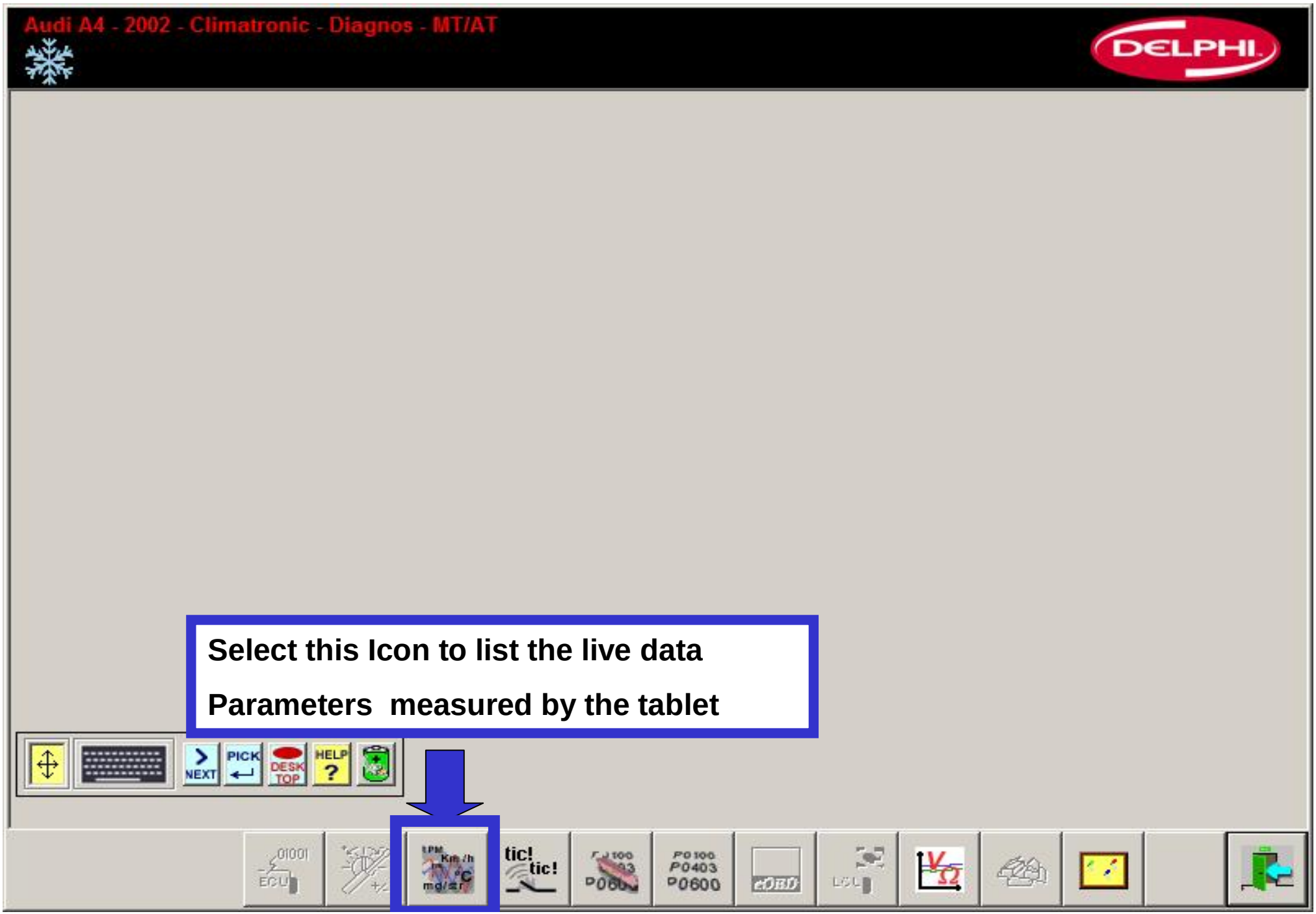

Audi A4 - 2002 - Climatronic - Diagnos - MT/AT
DELPHI
Select this Icon to read fault codes held in the vehicle's ECU memory. NOTE: Greyed-out Icons are inactive
NEXT
PICK
DESK TOP
HELP
P0100
P0403
P0600
eOBD

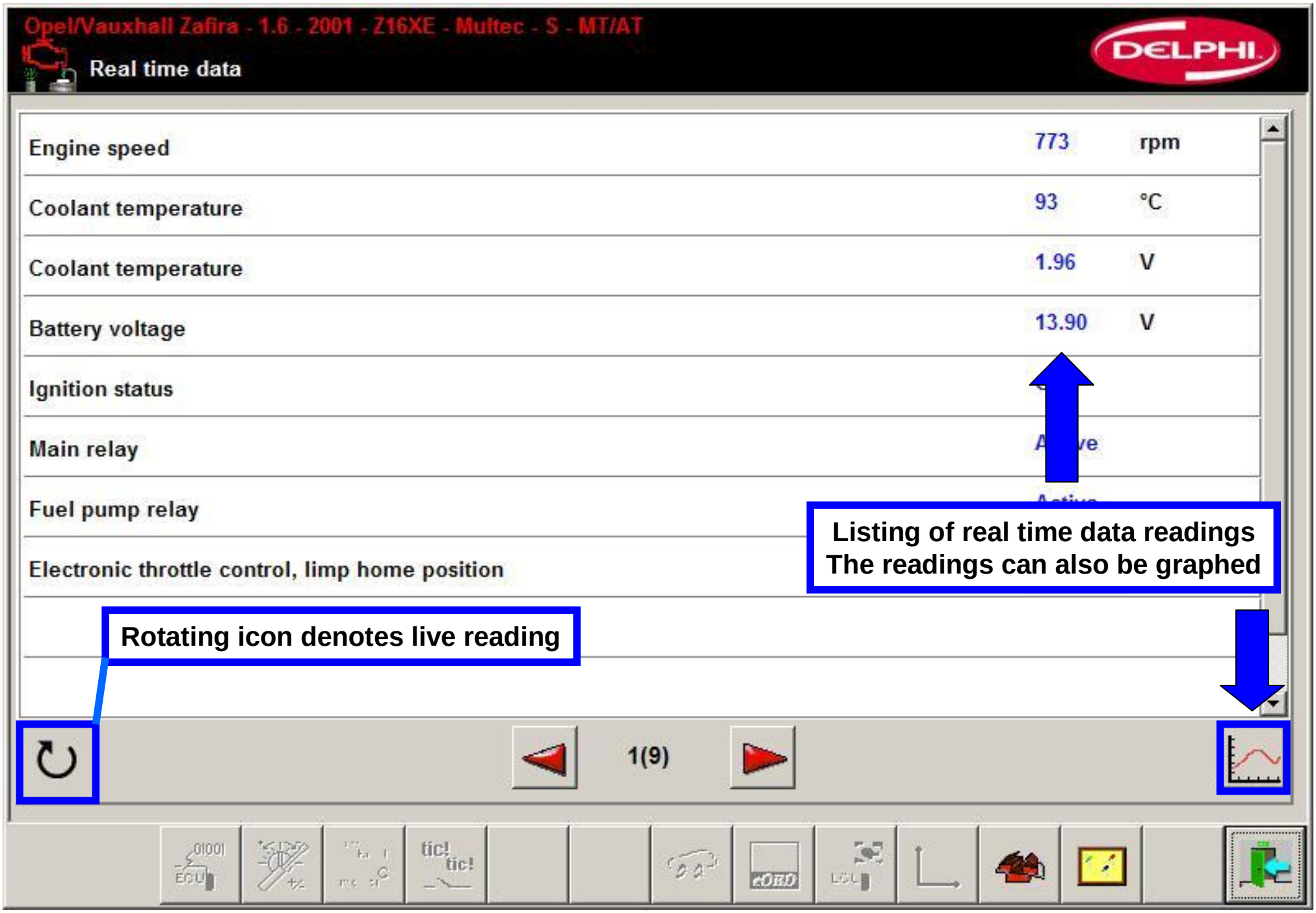

Ford Mondeo - 2.0 - 2001 - CJBB - Duratec HE - AT - 4 gear
Read fault codes
DELPHI
P1000 OBD Systems Readiness Test Not Complete
Read fault codes
DESK TOP
HELP
?
ECU
tic!
tic!
eOBD

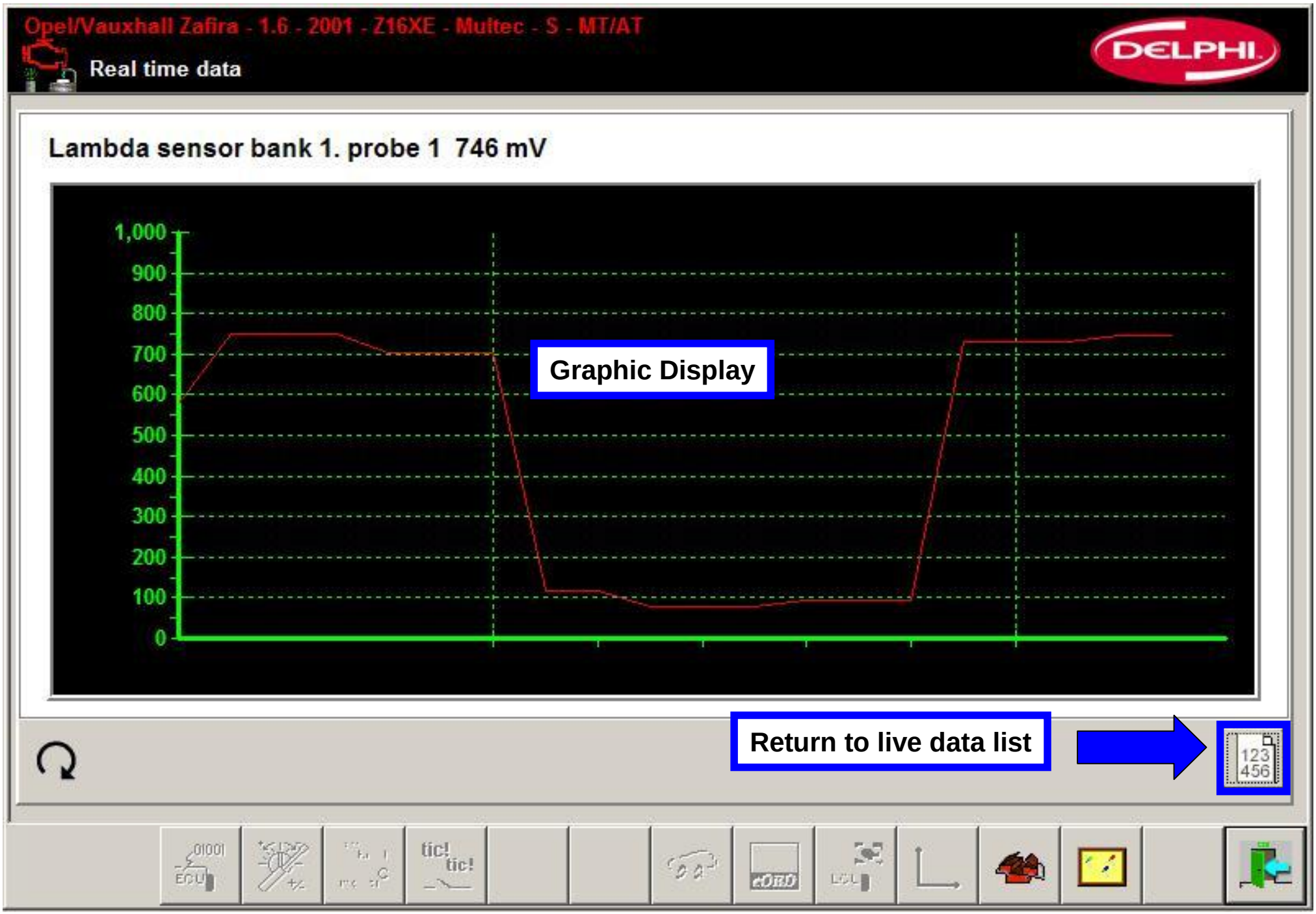

Opel/Vauxhall Zafira - 1.6 - 2001 - Z16XE - Multec - S - MT/AT
DELPHI
No faults found
To exit always use this icon
ECU
tic!
tic!
OBD


Audi A4 - 2002 - Climatronic - Diagnos - MT/AT
DELPHI
Use this icon to erase fault codes
NEXT
PICK
DESK TOP
HELP
P0403
P0600
eOBD

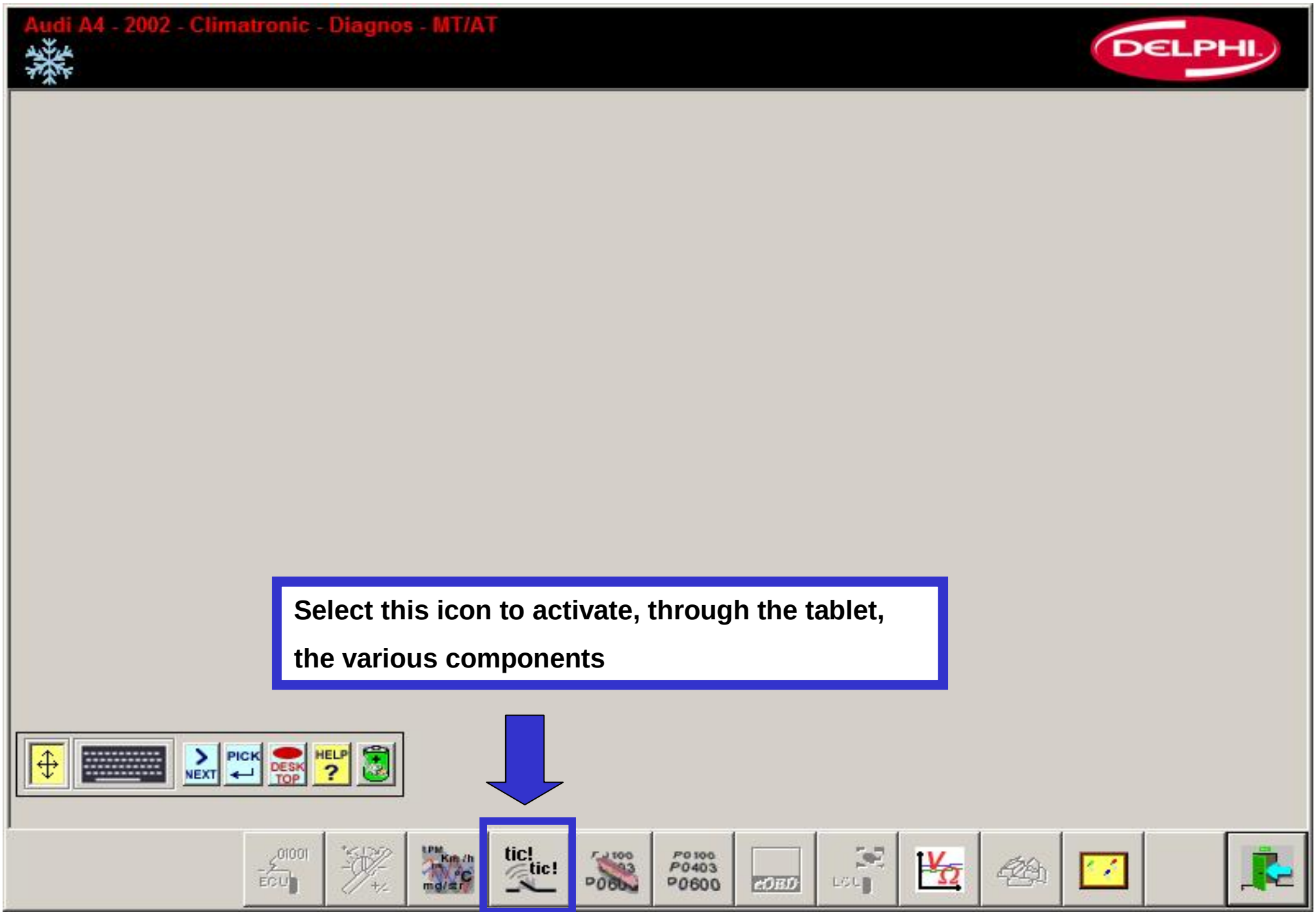
# READ LIVE OBD DATA

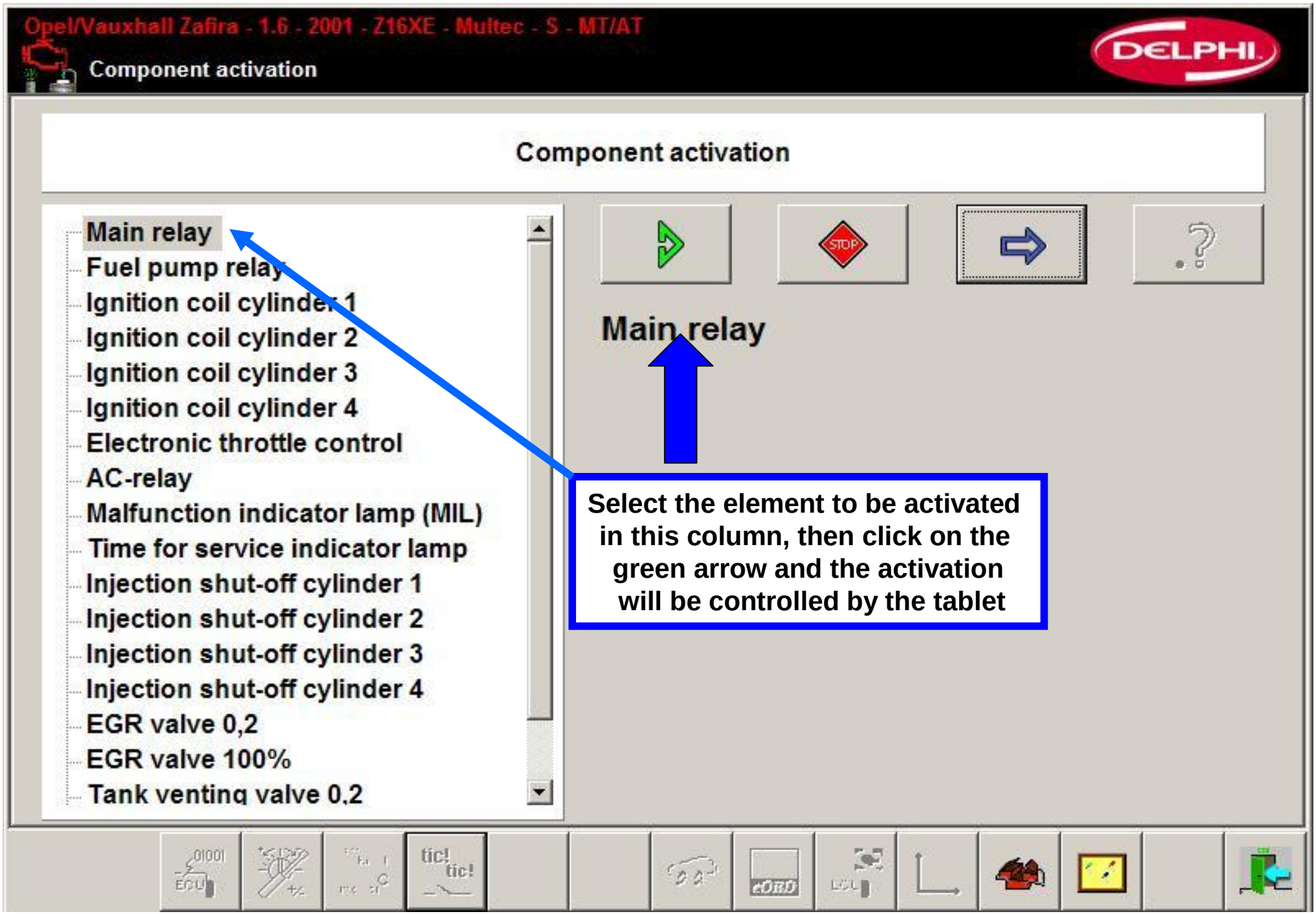

Audi A4 - 2002 - Climatronic - Diagnos - MT/AT
DELPHI
Select this Icon to list the live data
Parameters measured by the tablet
NEXT
PICK
DESK TOP
HELP
ECU
P0403
P0600


Opel/Vauxhall Zafira - 1.6 - 2001 - Z16XE - Multec - S - MT/AT
Real time data
DELPHI
Engine speed 773 rpm
Coolant temperature 93 °C
Coolant temperature 1.96 V
Battery voltage 13.90 V
Ignition status
Main relay
Fuel pump relay
Electronic throttle control, limp home position
Listing of real time data readings
The readings can also be graphed
Rotating icon denotes live reading
1(9)

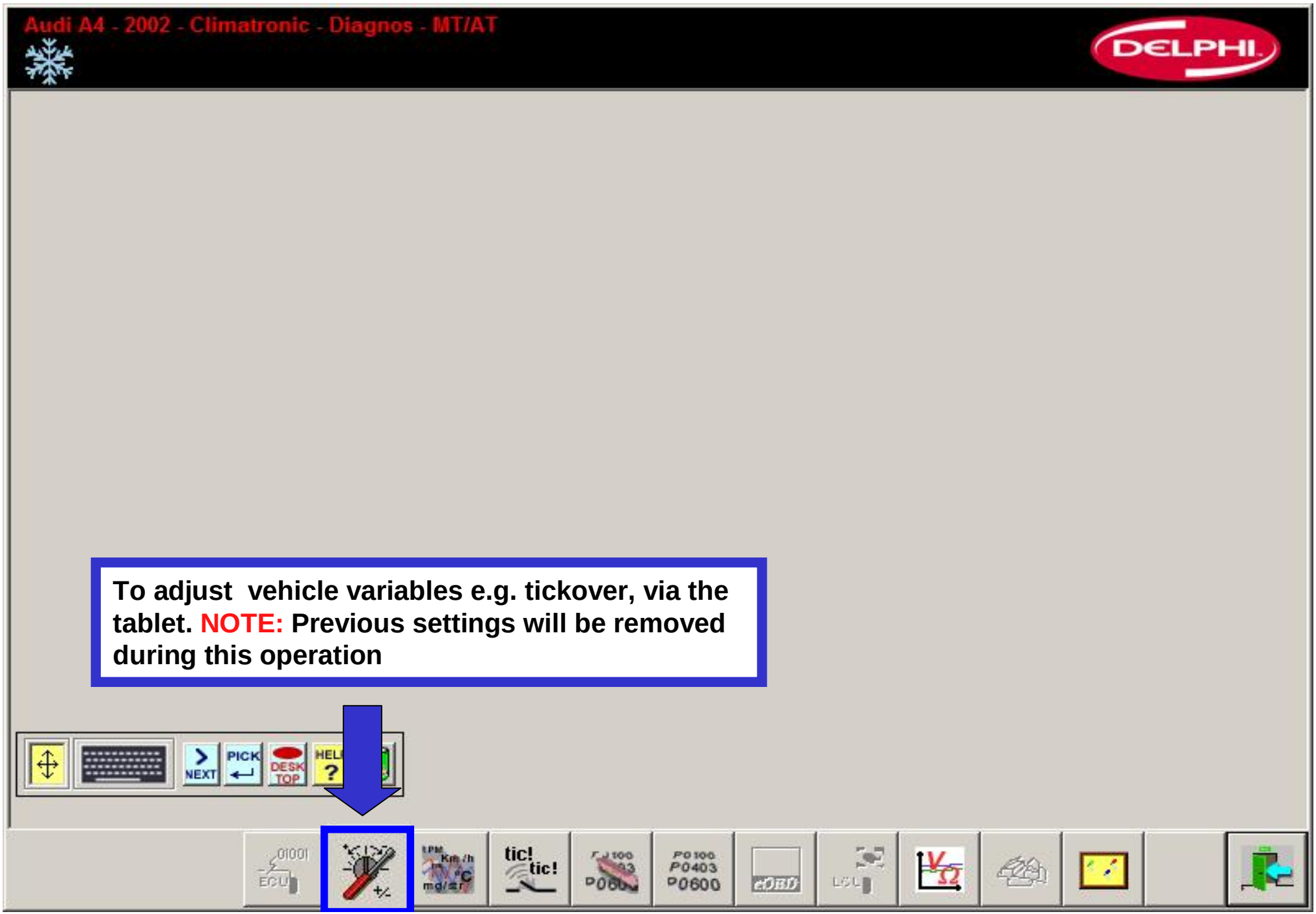

Opel/Vauxhall Zafira - 1.6 - 2001 - Z16XE - Multec - S - MT/AT
Real time data
DELPHI
Lambda sensor bank 1. probe 1 746 mV
1,000
900
800
700
600
500
400
300
200
100
0
Graphic Display
Return to live data list
123
456

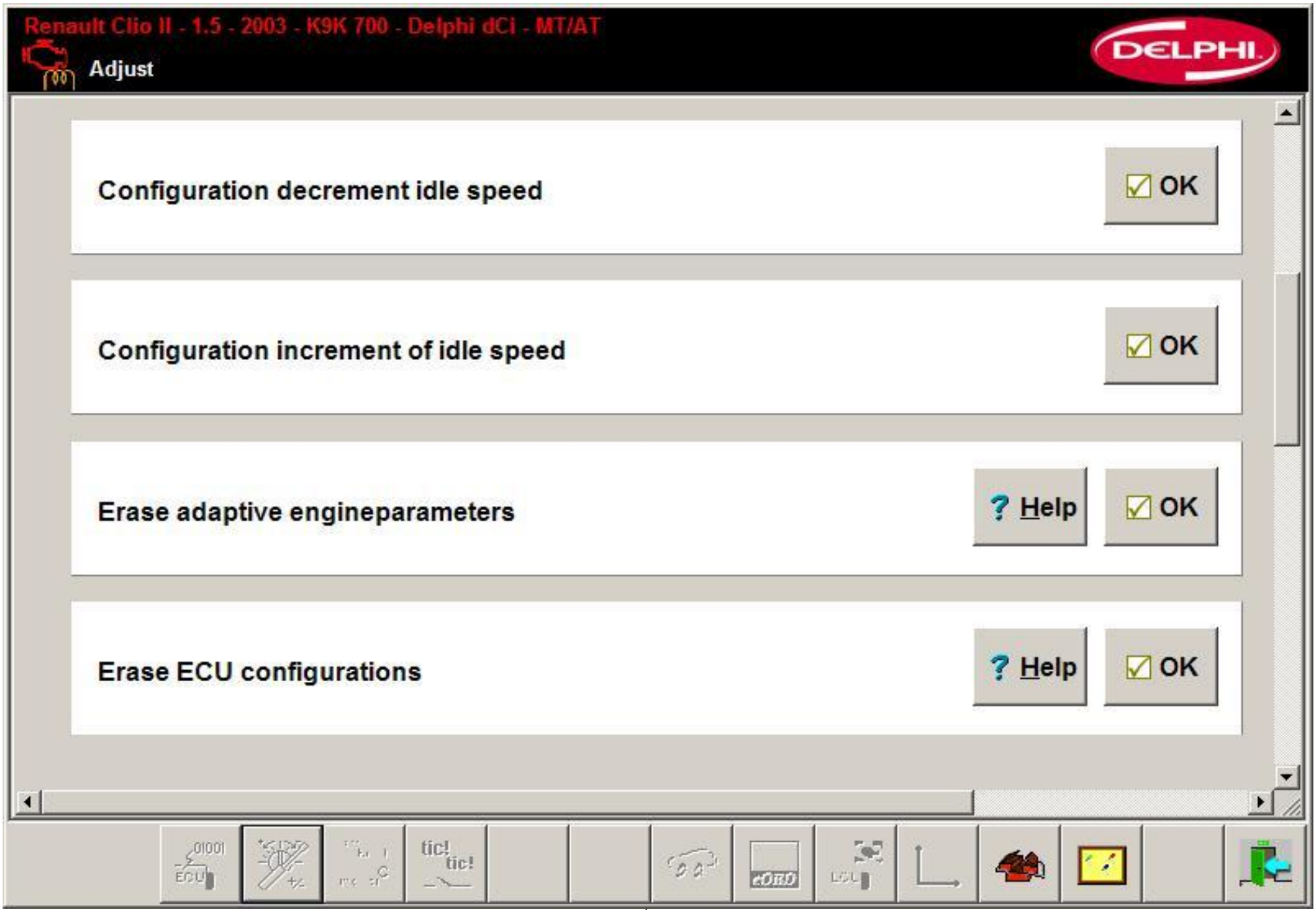
# COMPONENT ACTIVATION (OBD)


Audi A4 - 2002 - Climatronic - Diagnos - MT/AT
DELPHI
Select this icon to activate, through the tablet,
the various components
NEXT
PICK
DESK TOP
HELP
tic!
tic!
P0403
P0600

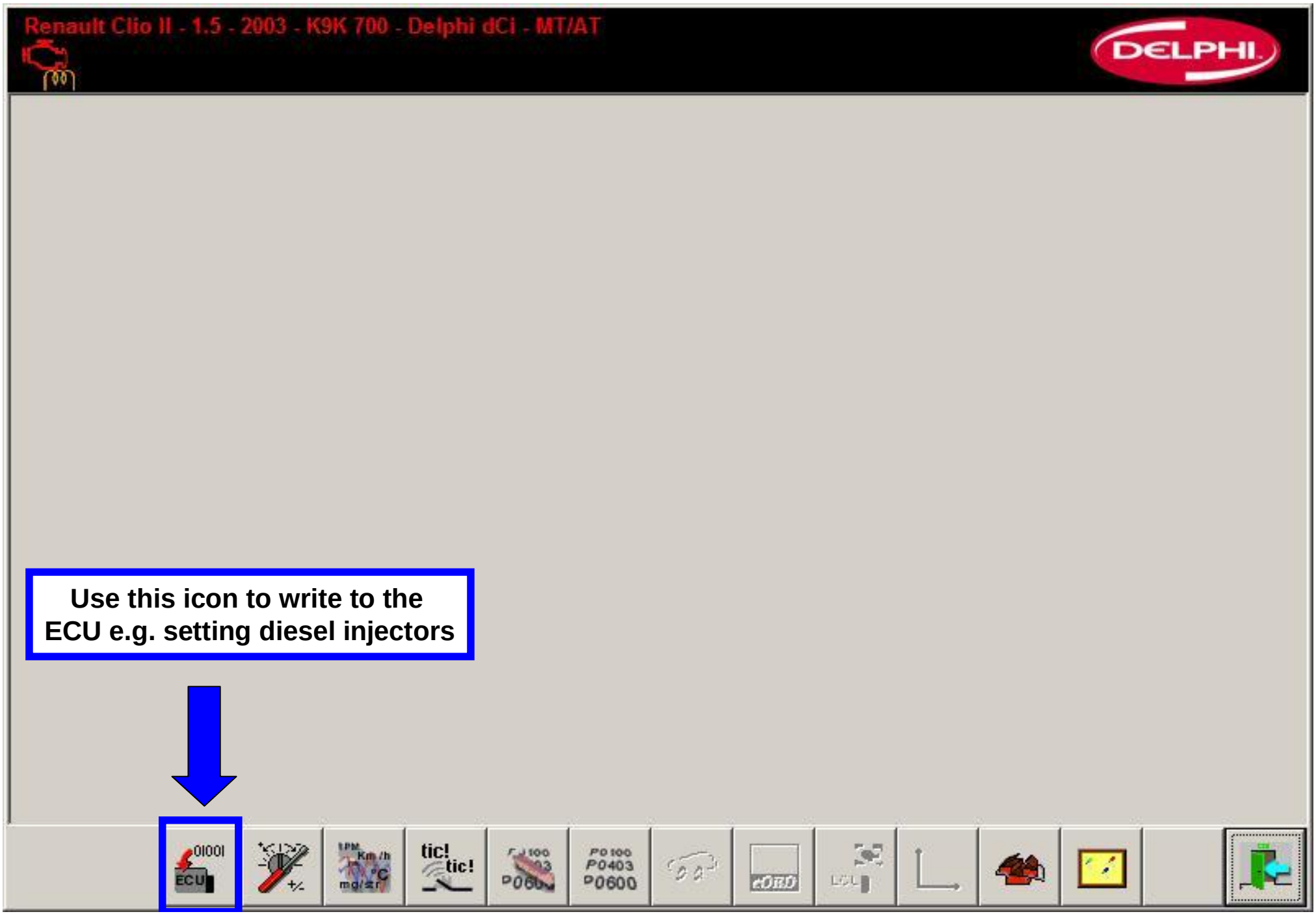

Opel/Vauxhall Zafira - 1.6 - 2001 - Z16XE - Multec - S - MT/AT
Component activation
DELPHI
Component activation
Main relay
Fuel pump relay
Ignition coil cylinder 1
Ignition coil cylinder 2
Ignition coil cylinder 3
Ignition coil cylinder 4
Electronic throttle control
AC-relay
Malfunction indicator lamp (MIL)
Time for service indicator lamp
Injection shut-off cylinder 1
Injection shut-off cylinder 2
Injection shut-off cylinder 3
Injection shut-off cylinder 4
EGR valve 0,2
EGR valve 100%
Tank venting valve 0,2
STOP
Main relay
Select the element to be activated in this column, then click on the green arrow and the activation will be controlled by the tablet

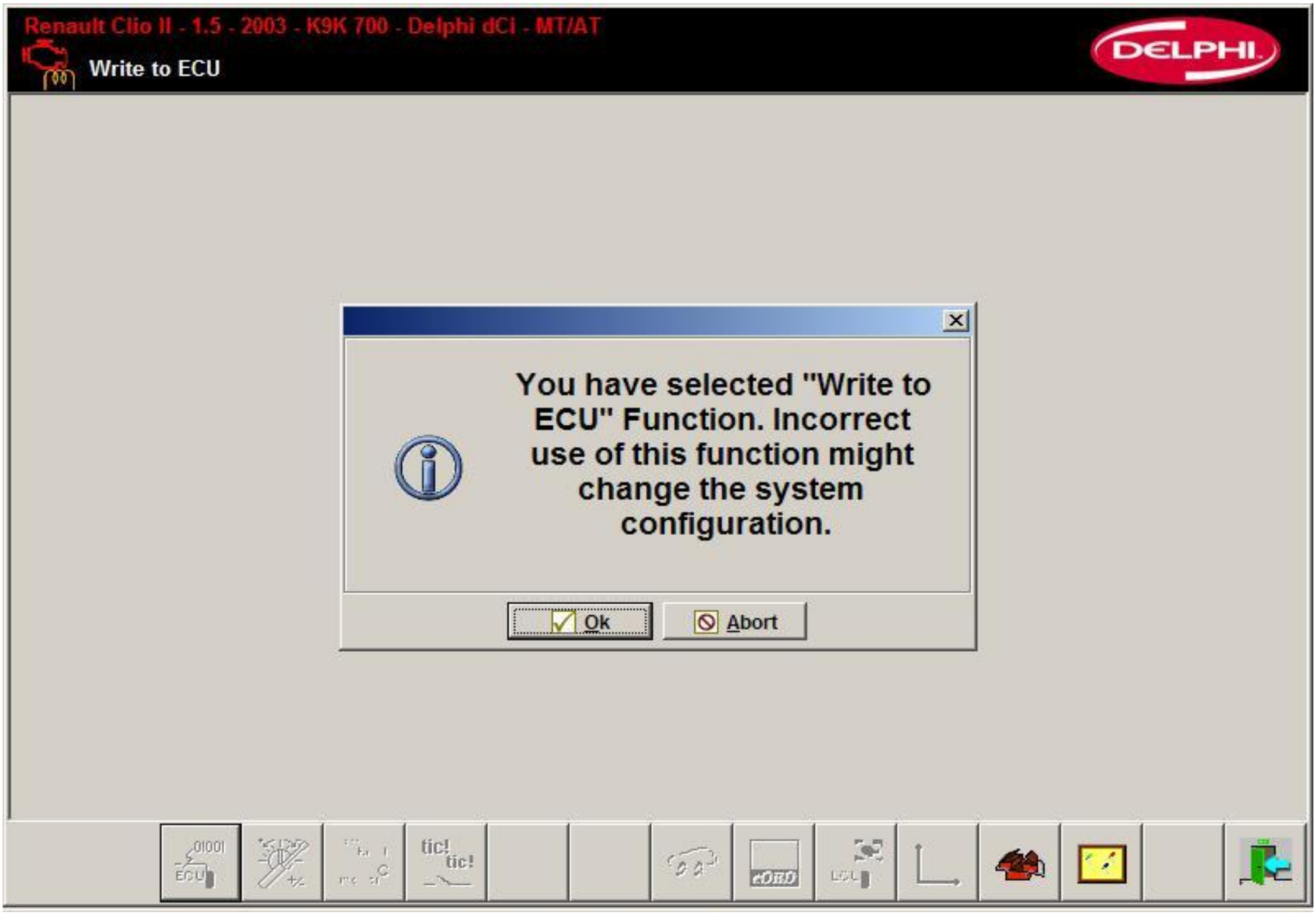
# ADJUST PARAMETERS (OBD)

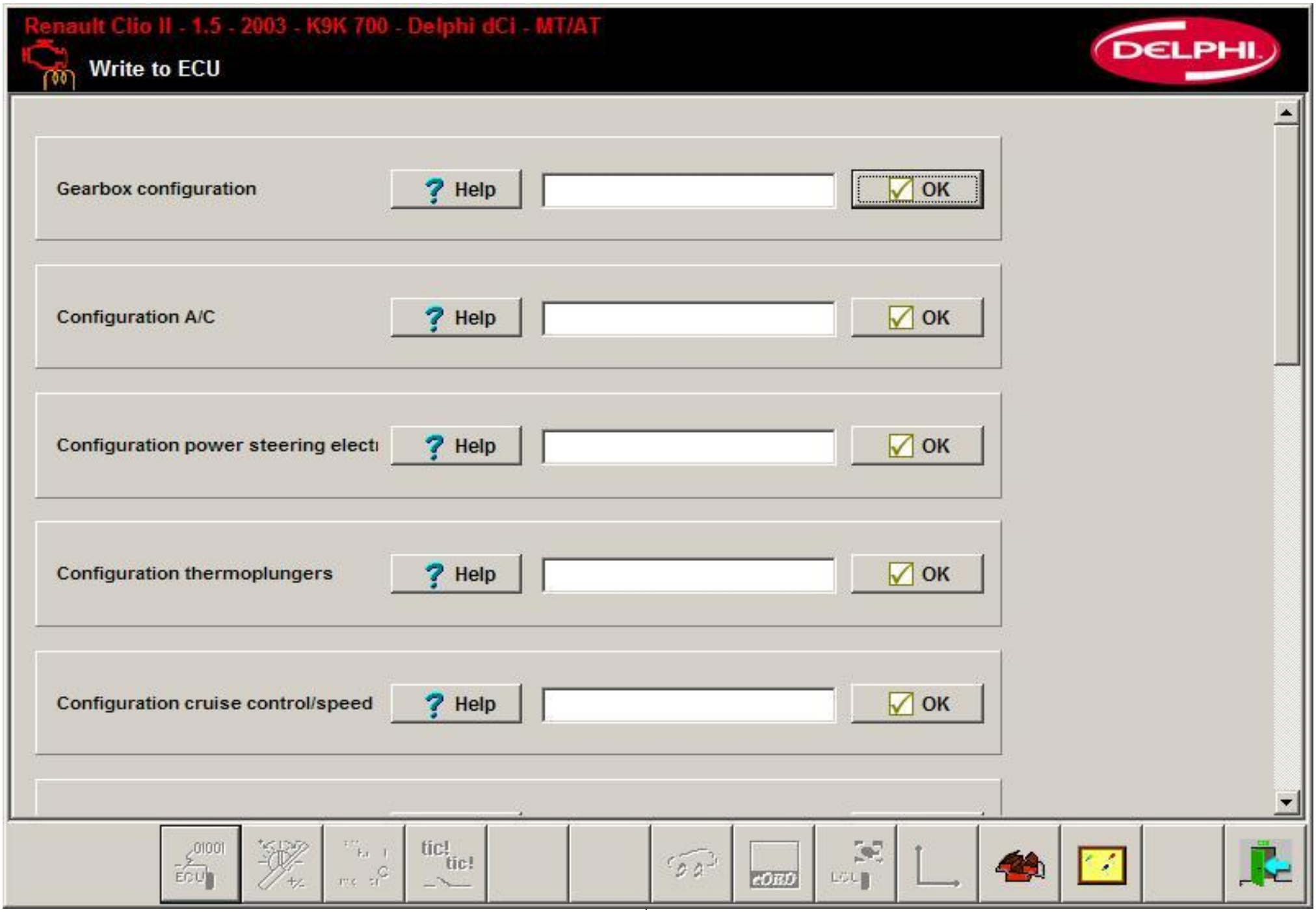

Audi A4 - 2002 - Climatronic - Diagnos - MT/AT
DELPHI
To adjust vehicle variables e.g. tickover, via the tablet. NOTE: Previous settings will be removed during this operation
NEXT
PICK
DESK TOP
tic!
tic!
P0403
P0600
eOBD

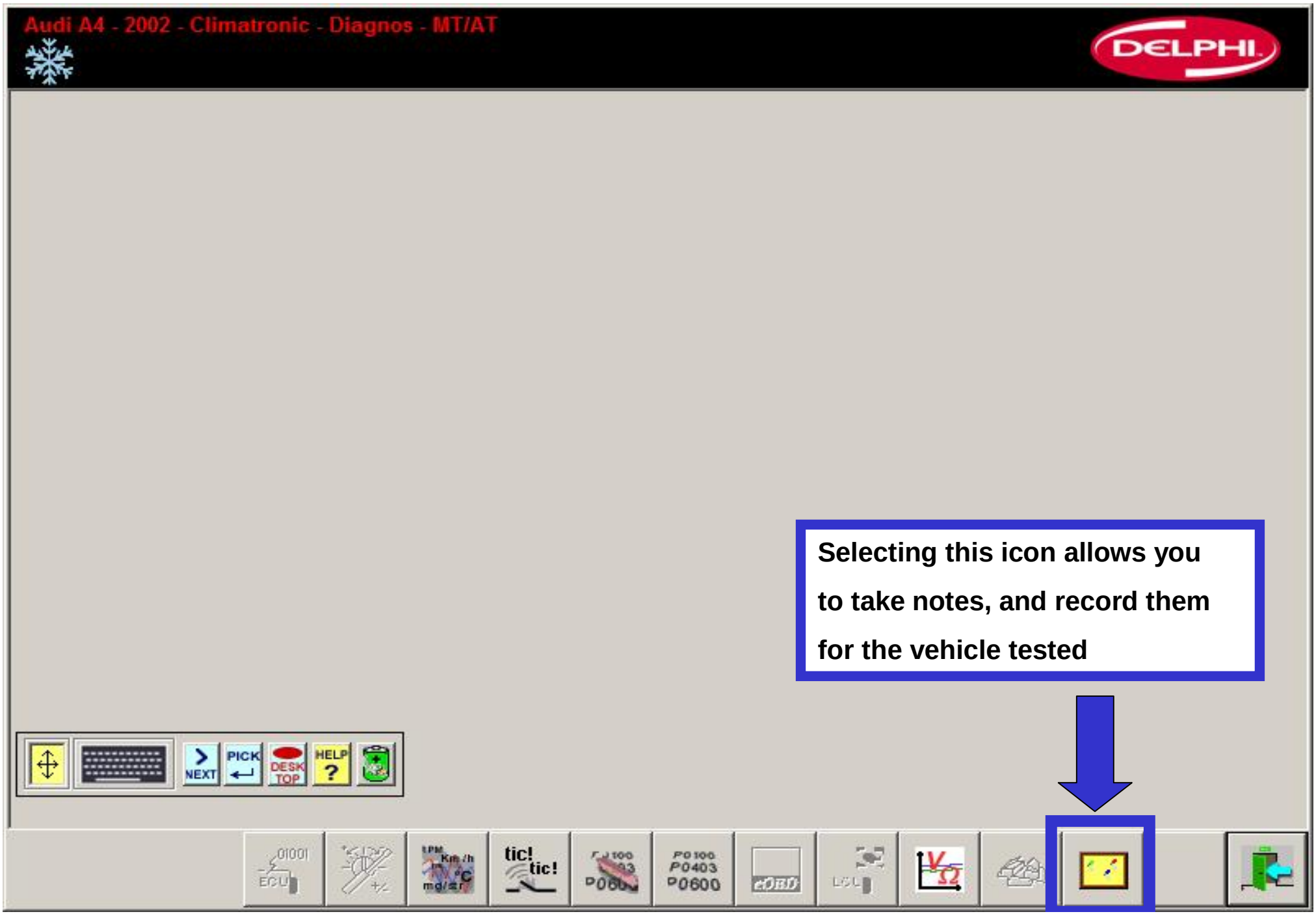

Renault Clio II - 1.5 - 2003 - K9K 700 - Delphi dCi - MT/AT
Adjust
DELPHI
Configuration decrement idle speed
OK
Configuration increment of idle speed
OK
Erase adaptive engineparameters
Help
OK
Erase ECU configurations
Help
OK
ECU
tic!
tic!
CORD

# WRITE TO ECU (OBD)


Renault Clio II - 1.5 - 2003 - K9K 700 - Delphi dCi - MT/AT
DELPHI
Use this icon to write to the ECU e.g. setting diesel injectors
ECU
tic!
tic!
P0403
P0600


Renault Clio II - 1.5 - 2003 - K9K 700 - Delphi dCi - MT/AT
Write to ECU
DELPHI
You have selected "Write to ECU" Function. Incorrect use of this function might change the system configuration.
Ok
Abort
ECU
tic!
tic!
FORD


Renault Clio II - 1.5 - 2003 - K9K 700 - Delphi dCi - MT/AT
Write to ECU
DELPHI
Gearbox configuration
Help
OK
Configuration A/C
Help
OK
Configuration power steering electi
Help
OK
Configuration thermoplungers
Help
OK
Configuration cruise control/speed
Help
OK
ECU
tic!
tic!
dCRD

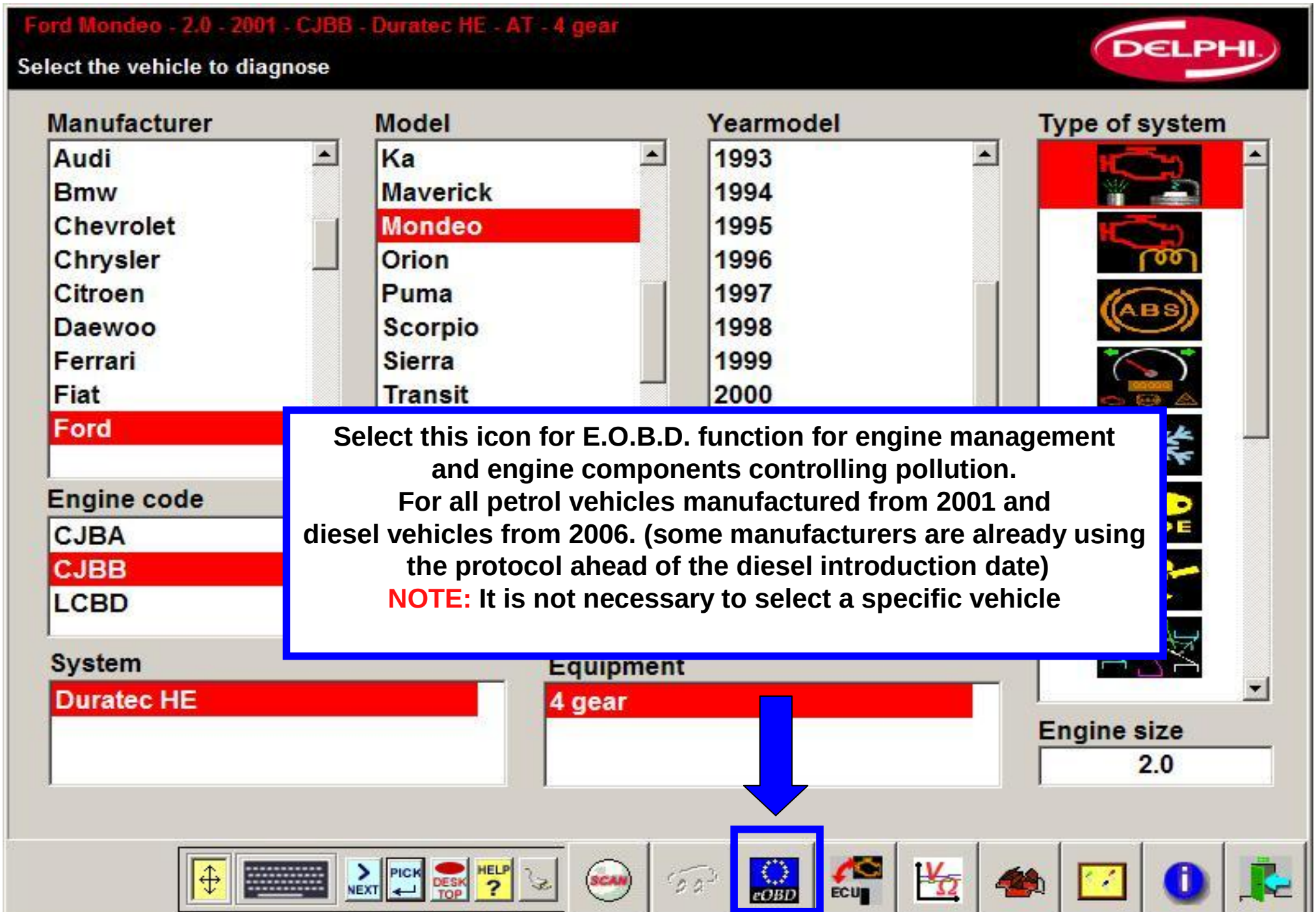

Audi A4 - 2002 - Climatronic - Diagnos - MT/AT
DELPHI
Selecting this icon allows you to take notes, and record them for the vehicle tested
NEXT
PICK
DESK TOP
HELP
ECU
tic!
tic!
P0403
P0600
eOBD

Audi A4 - 2002 - Climatronic - Diagnos - MT/AT

DELPHI

To exit select this icon

# EOBD FUNCTIONS


Ford Mondeo - 2.0 - 2001 - CJBB - Duratec HE - AT - 4 gear
Select the vehicle to diagnose
DELPHI
Manufacturer
Audi
Bmw
Chevrolet
Chrysler
Citroen
Daewoo
Ferrari
Fiat
Ford
Model
Ka
Maverick
Mondeo
Orion
Puma
Scorpio
Sierra
Transit
Yearmodel
1993
1994
1995
1996
1997
1998
1999
2000
Type of system
ABS
Engine code
CJBA
CJBB
LCBD
Select this icon for E.O.B.D. function for engine management and engine components controlling pollution.
For all petrol vehicles manufactured from 2001 and diesel vehicles from 2006. (some manufacturers are already using the protocol ahead of the diesel introduction date)
NOTE: It is not necessary to select a specific vehicle
System
Duratec HE
Equipment
4 gear
Engine size
2.0
NEXT
PICK
DESK TOP
HELP
SCAN
eOBD
ECU

## Supported units

ECU 11 Engine controllers

## Main information

**Communication type:** **ISO 14230-4 (KW 2000)**

**MIL status:** **off**

**Total number of faultcodes:** **0**

**ECU 11 Engine controllers**

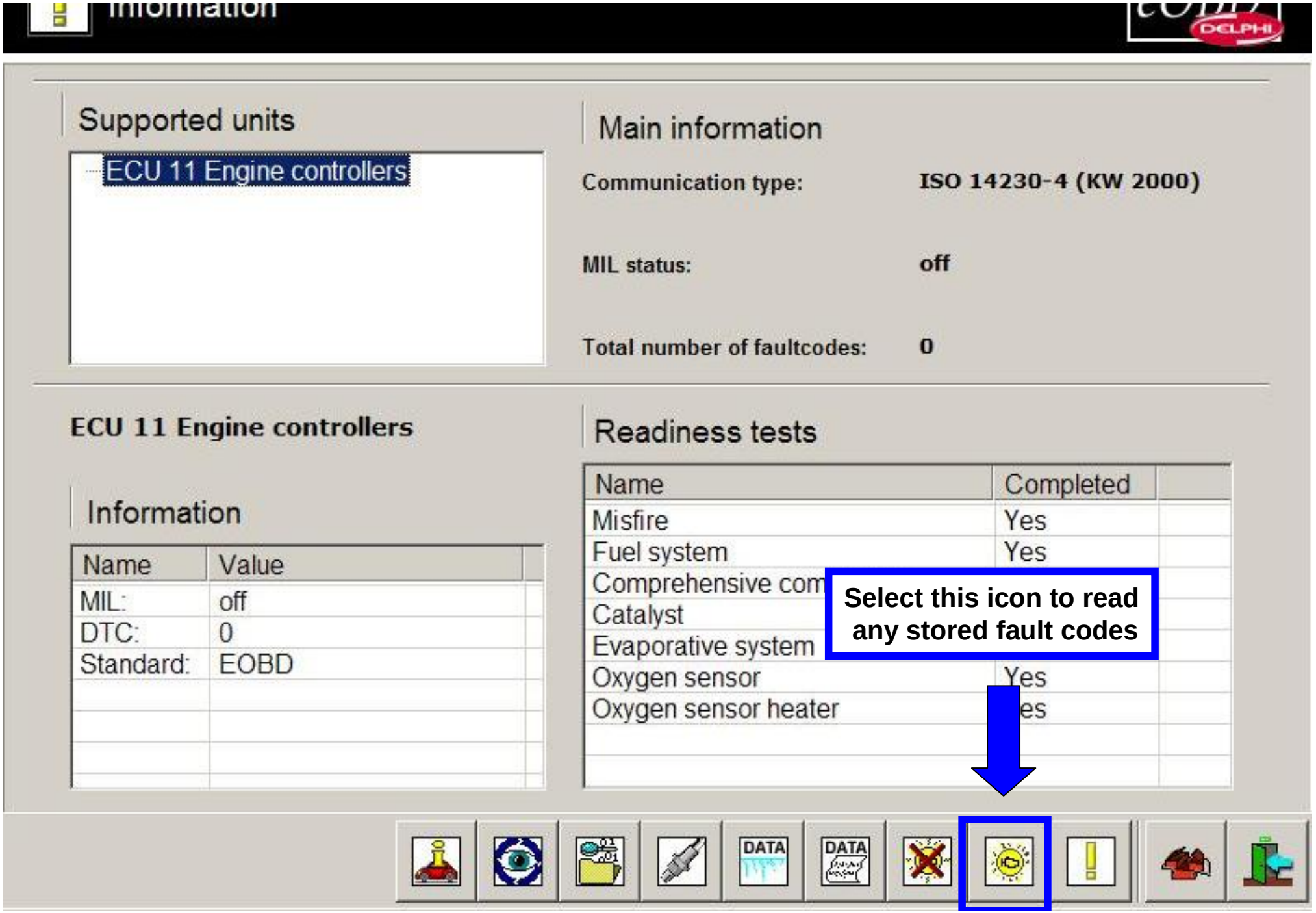
## Information

| Name | Value |
|---|---|
| MIL: | off |
| DTC: | 0 |
| Standard: | EOBD |

## Readiness tests

| Name | Completed |
|---|---|
| Misfire | Yes |
| Fuel system | Yes |
| Comprehensive component | Yes |
| Catalyst | |
| Evaporative system | |
| Oxygen sensor | |
| Oxygen sensor heater | Yes |

**Gives information on ECU status And readiness tests**


Information
DELPHI
Supported units
ECU 11 Engine controllers
Main information
Communication type:
ISO 14230-4 (KW 2000)
MIL status:
off
Total number of faultcodes:
0
ECU 11 Engine controllers
Information
Name
Value
MIL:
off
DTC:
0
Standard:
EOBD
Readiness tests
Name
Completed
Misfire
Yes
Fuel system
Yes
Comprehensive com
Catalyst
Evaporative system
Oxygen sensor
Yes
Oxygen sensor heater
es
Select this icon to read any stored fault codes
DATA
DATA

# Read Faultcodes

eOBD DELPHI

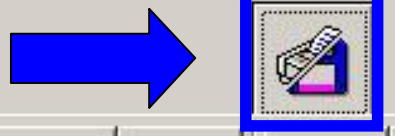
## Permanent faultcodes (Mode 03)

| ECU | Fault code | Description |
|---|---|---|
| | | No faultcodes |

## Intermittent faultcodes (Mode 07)

| ECU | Fault code | Description |
|---|---|---|
| | | No faultcodes |

**Optional print and save button**



PRINT

# Print / Save

## Test information

Mechanic:

Registration number:

Mileage:

Date: 01/03/2005

- [x] Main information
- [x] Fault codes

Update

## Information Print

Setup

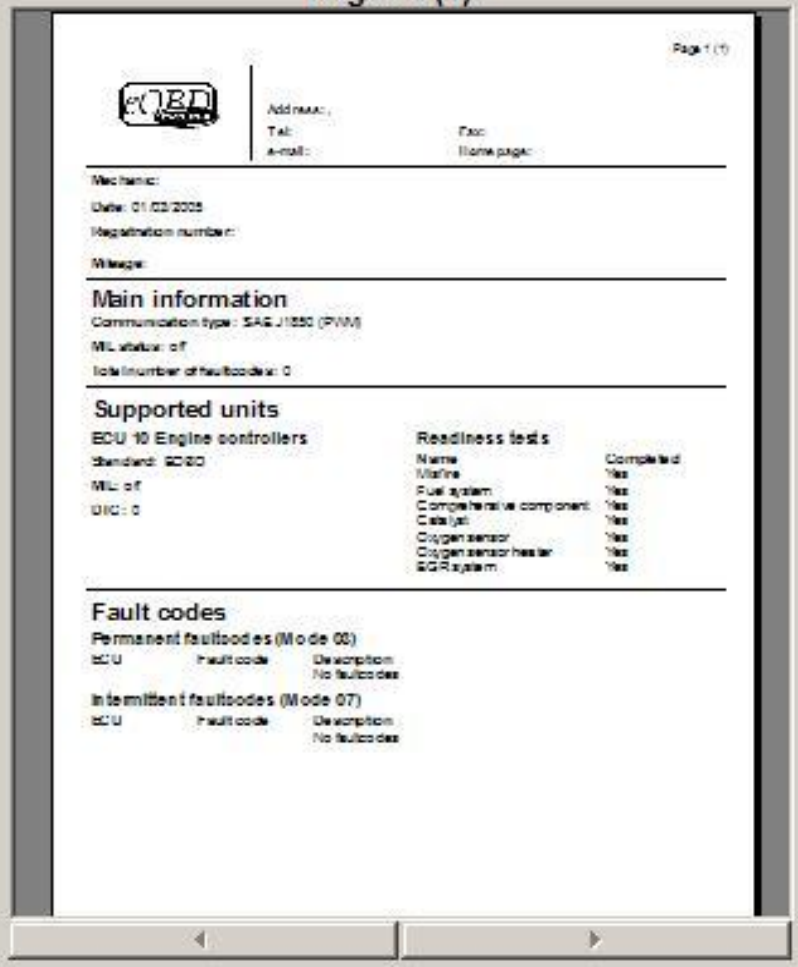
Copies: 1

Print

## Information Save

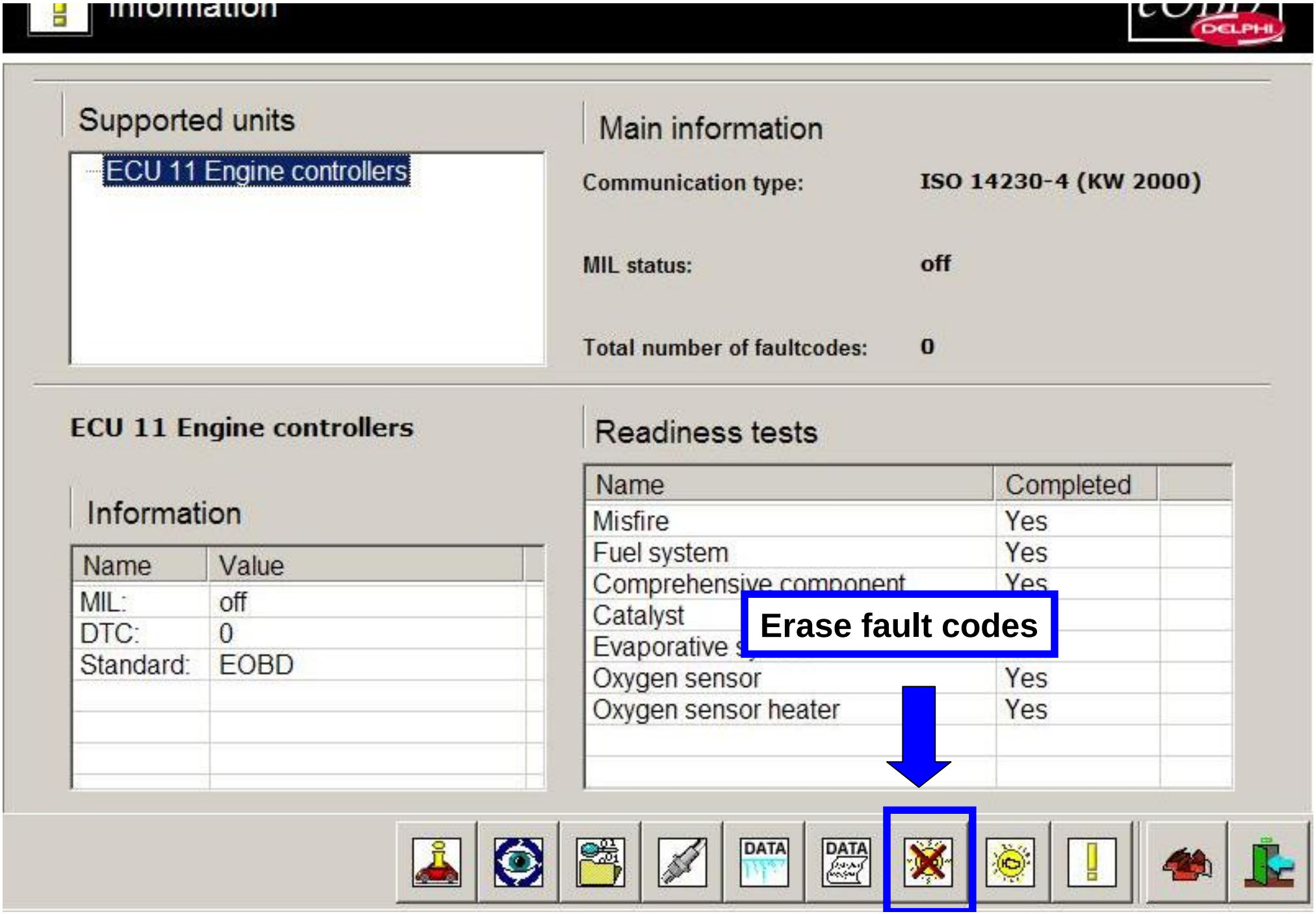
Save

Page: 1 (1)




Cancel

# ERASE FAULT CODES (EOBD)


Information
DELPHI
Supported units
ECU 11 Engine controllers
Main information
Communication type:
ISO 14230-4 (KW 2000)
MIL status:
off
Total number of faultcodes:
0
ECU 11 Engine controllers
Information
Name
Value
MIL:
off
DTC:
0
Standard:
EOBD
Readiness tests
Name
Completed
Misfire
Yes
Fuel system
Yes
Comprehensive component
Yes
Catalyst
Evaporative
Oxygen sensor
Yes
Oxygen sensor heater
Yes
Erase fault codes
DATA
DATA

# Clear diagnostic information

eOBD DELPHI

NOTE!

Read out fault codes before erase

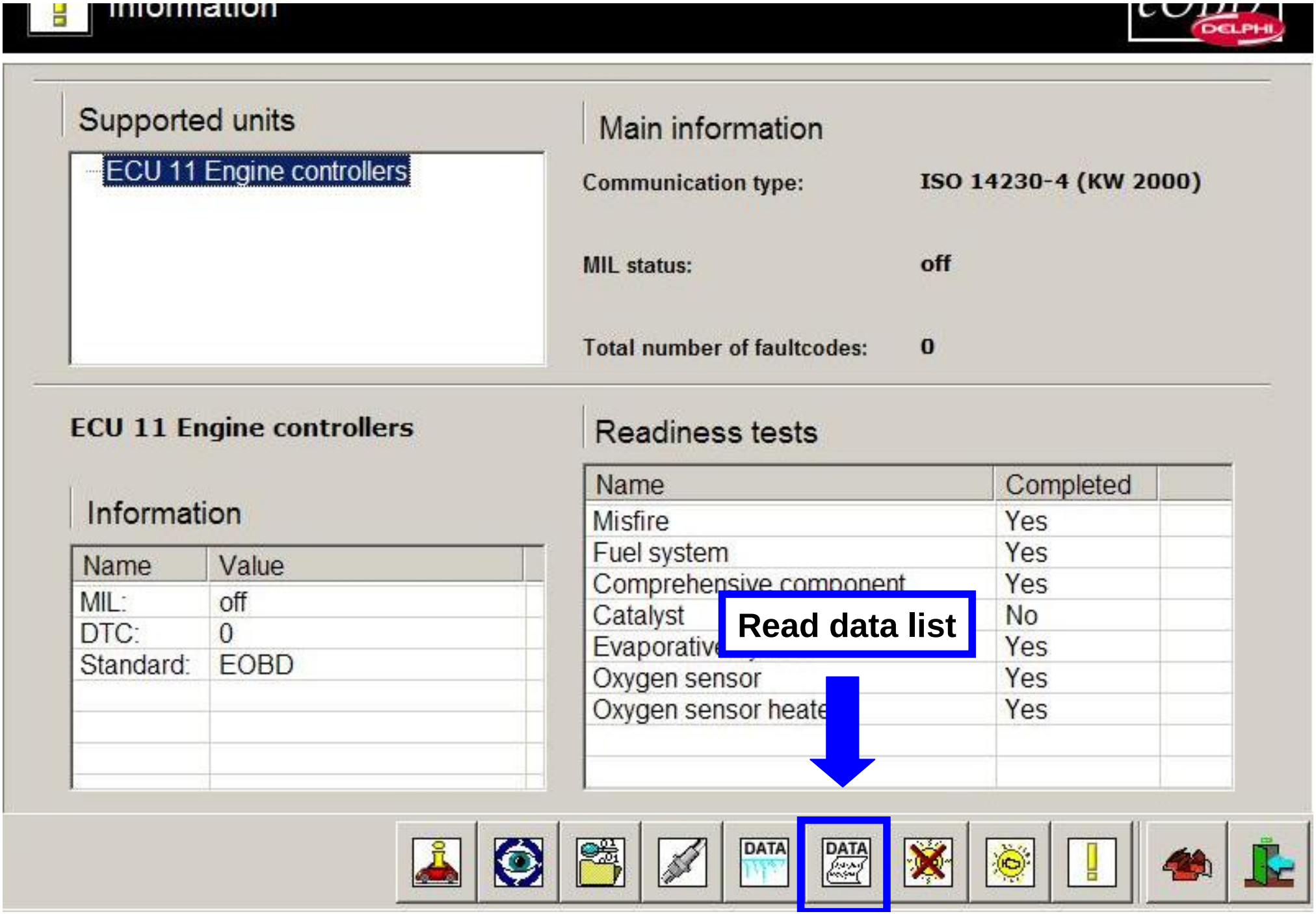
Press the Erase button to erase the fault codes

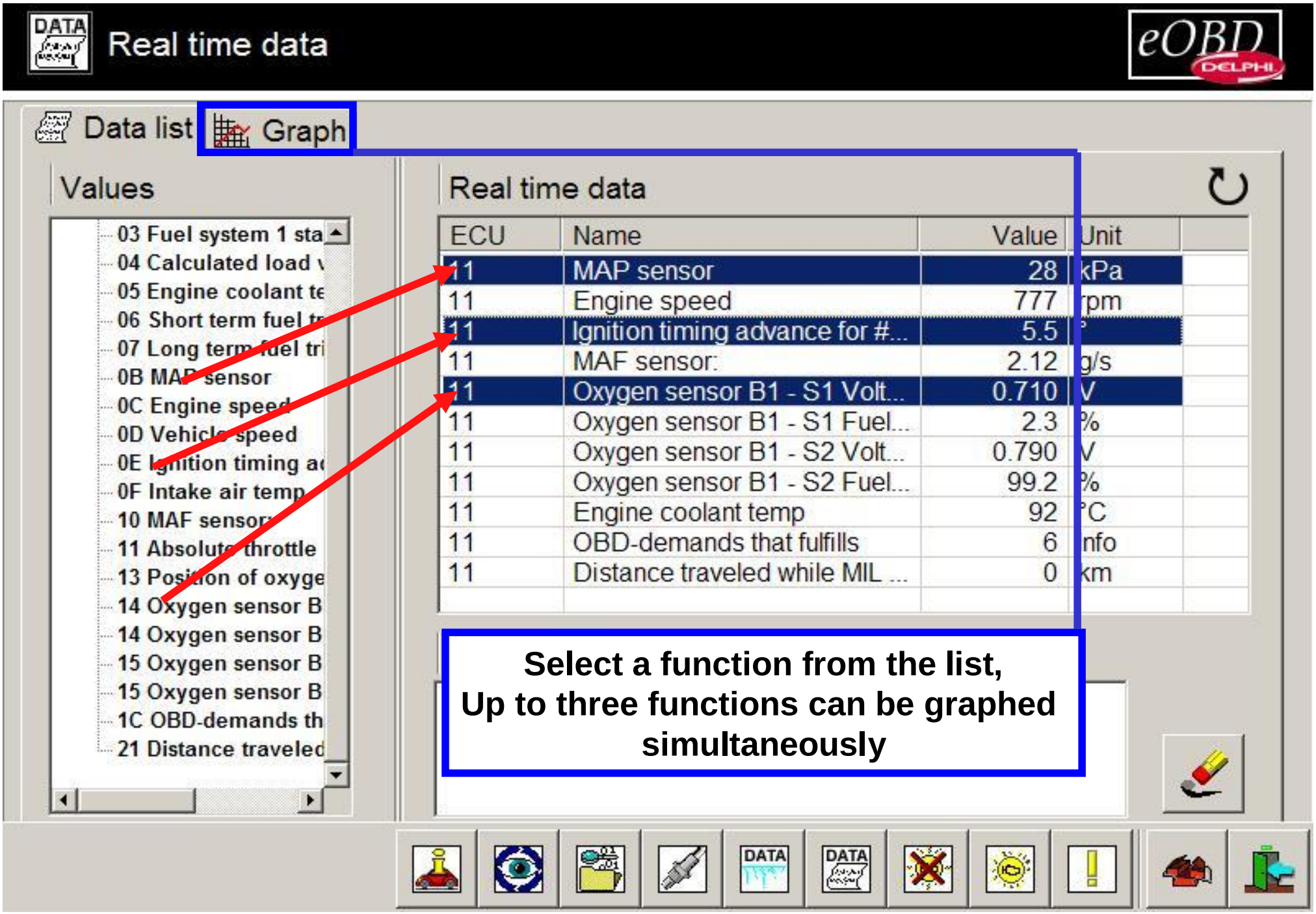
Note! All the emission - related diagnostic information will be erased

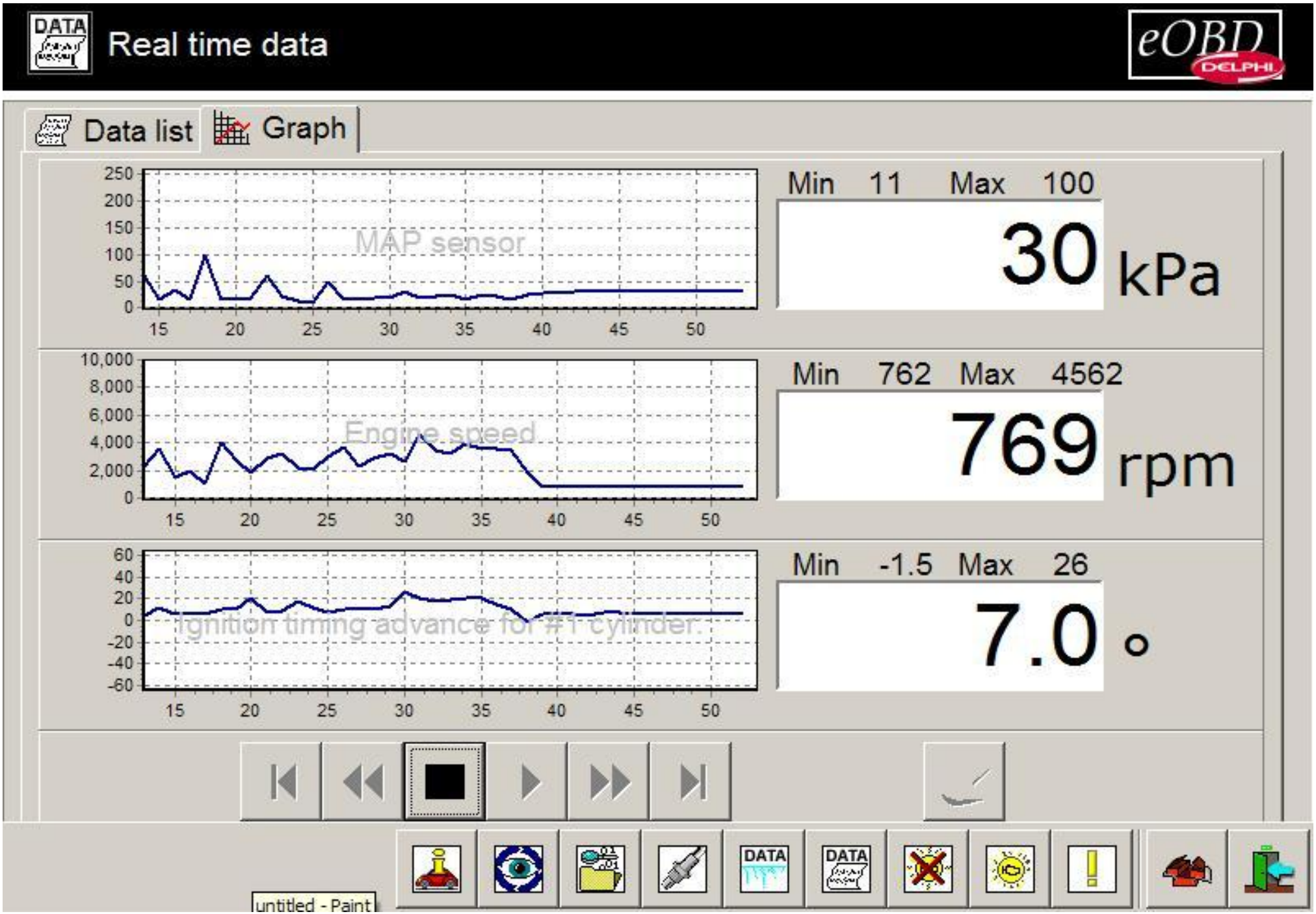
Not Erased

Erase

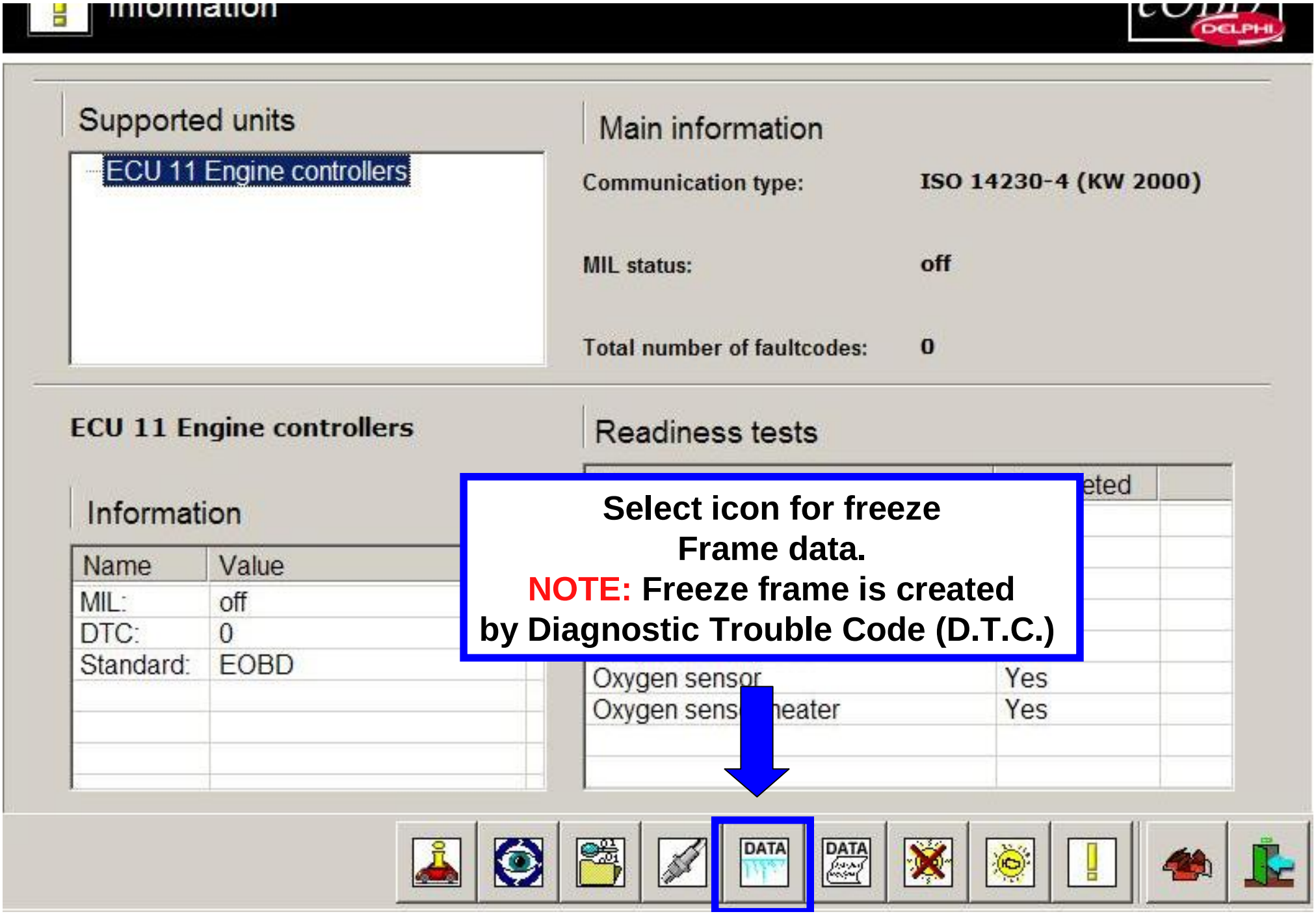
# READ LIVE DATA (EOBD)


Information
DELPHI
Supported units
ECU 11 Engine controllers
Main information
Communication type: ISO 14230-4 (KW 2000)
MIL status: off
Total number of faultcodes: 0
ECU 11 Engine controllers
Information
Name Value
MIL: off
DTC: 0
Standard: EOBD
Readiness tests
Name Completed
Misfire Yes
Fuel system Yes
Comprehensive component Yes
Catalyst No
Evaporative Yes
Oxygen sensor Yes
Oxygen sensor heate Yes
Read data list
DATA
DATA


Real time data
eOBD
DELPHI
Data list
Graph
Values
03 Fuel system 1 sta
04 Calculated load v
05 Engine coolant te
06 Short term fuel tr
07 Long term fuel tri
0B MAP sensor
0C Engine speed
0D Vehicle speed
0E Ignition timing ad
0F Intake air temp
10 MAF sensor
11 Absolute throttle
13 Position of oxyge
14 Oxygen sensor B
14 Oxygen sensor B
15 Oxygen sensor B
15 Oxygen sensor B
1C OBD-demands th
21 Distance traveled
Real time data
ECU Name Value Unit
11 MAP sensor 28 kPa
11 Engine speed 777 rpm
11 Ignition timing advance for #... 5.5 °
11 MAF sensor: 2.12 g/s
11 Oxygen sensor B1 - S1 Volt... 0.710 V
11 Oxygen sensor B1 - S1 Fuel... 2.3 %
11 Oxygen sensor B1 - S2 Volt... 0.790 V
11 Oxygen sensor B1 - S2 Fuel... 99.2 %
11 Engine coolant temp 92 °C
11 OBD-demands that fulfills 6 nfo
11 Distance traveled while MIL ... 0 km
Select a function from the list,
Up to three functions can be graphed
simultaneously
DATA
DATA


Real time data
eOBD
DELPHI
Data list
Graph
MAP sensor
Min 11 Max 100
30 kPa
Engine speed
Min 762 Max 4562
769 rpm
Ignition timing advance for #1 cylinder.
Min -1.5 Max 26
7.0 °
untitled - Paint

# FREEZE FRAME DATA (EOBD)


Information
DELPHI
Supported units
ECU 11 Engine controllers
Main information
Communication type: ISO 14230-4 (KW 2000)
MIL status: off
Total number of faultcodes: 0
ECU 11 Engine controllers
Readiness tests
Information
Name Value
MIL: off
DTC: 0
Standard: EOBD
Oxygen sensor Yes
Oxygen sens heater Yes
Select icon for freeze
Frame data.
NOTE: Freeze frame is created
by Diagnostic Trouble Code (D.T.C.)
DATA
DATA

# Freeze frame data

eOBD DELPHI

## Supported units

| ECU | Control unit | |
|---|---|---|
| 11 | Engine co... | |
| | | |
| | | |
| | | |

## ECU: 11 Fault code: Intake Air Temperature Circuit Malfunction

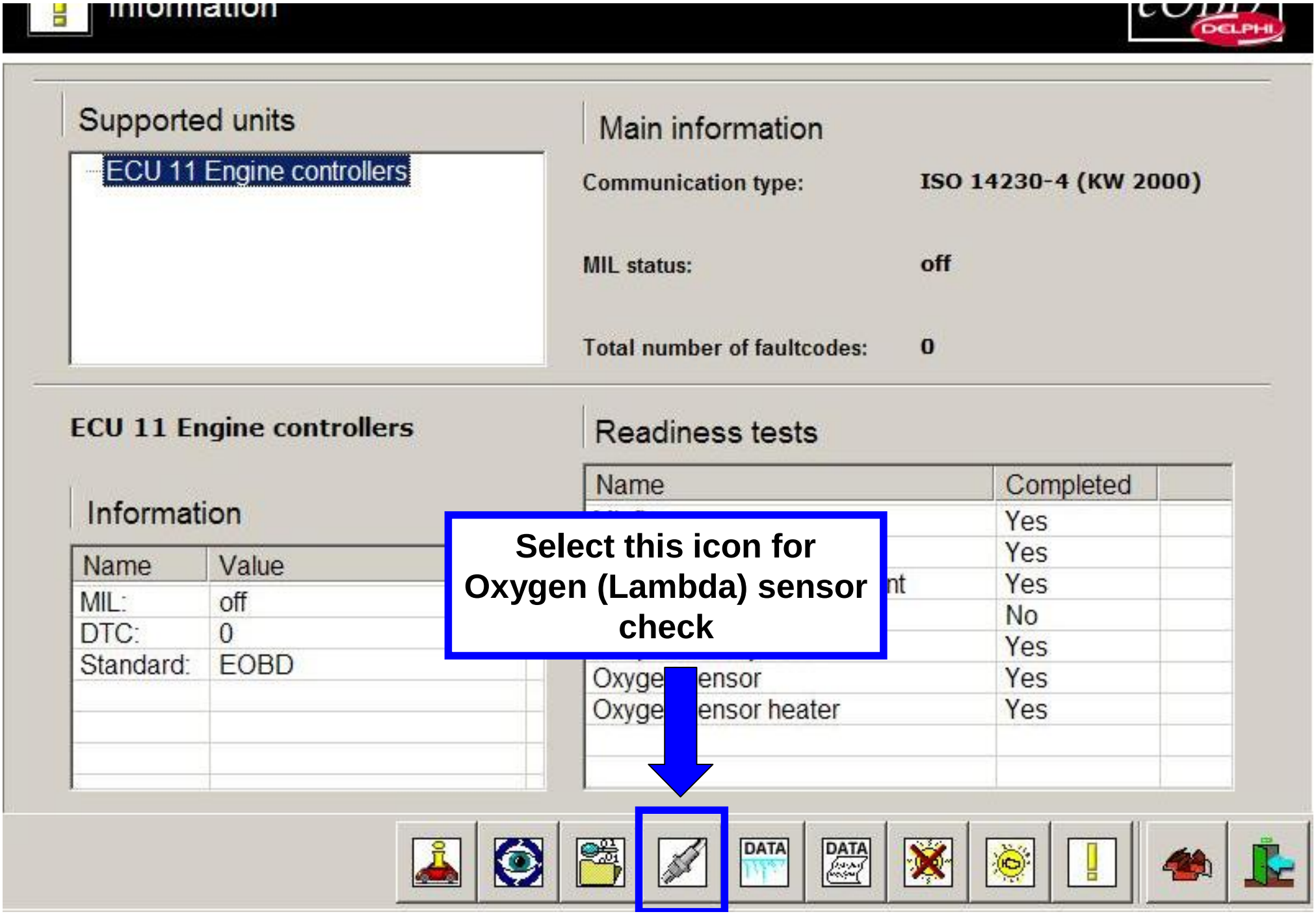
| PID | Name | Value | Unit |
|---|---|---|---|
| 02 | DTC that caused freeze frame data | P0110 | |
| 03 | Fuel system 1 status | | Info |
| 04 | Calculated load value | 2 | % |
| 05 | Engine coolant temp | 80 | °C |
| 06 | Short term fuel trim bank 1 | 0.98 | % |
| 07 | Long term fuel trim bank 1 | 0.98 | % |
| 0B | MAP sensor | 29 | kPa |
| 0C | Engine speed | 786 | rpm |
| 0D | Vehicle speed | 0 | km/h |
| 0E | Vehicle speed | 5.5 | km/h |

Previous frame

Frame number: 1

Next frame

# OXYGEN SENSOR (EOBD)


Information
DELPHI
Supported units
ECU 11 Engine controllers
Main information
Communication type: ISO 14230-4 (KW 2000)
MIL status: off
Total number of faultcodes: 0
ECU 11 Engine controllers
Information
Name Value
MIL: off
DTC: 0
Standard: EOBD
Readiness tests
Name Completed
Yes
Yes
Yes
No
Yes
Yes
Yes
Select this icon for Oxygen (Lambda) sensor check
DATA
DATA

# Oxygen sensor test result

eOBD DELPHI

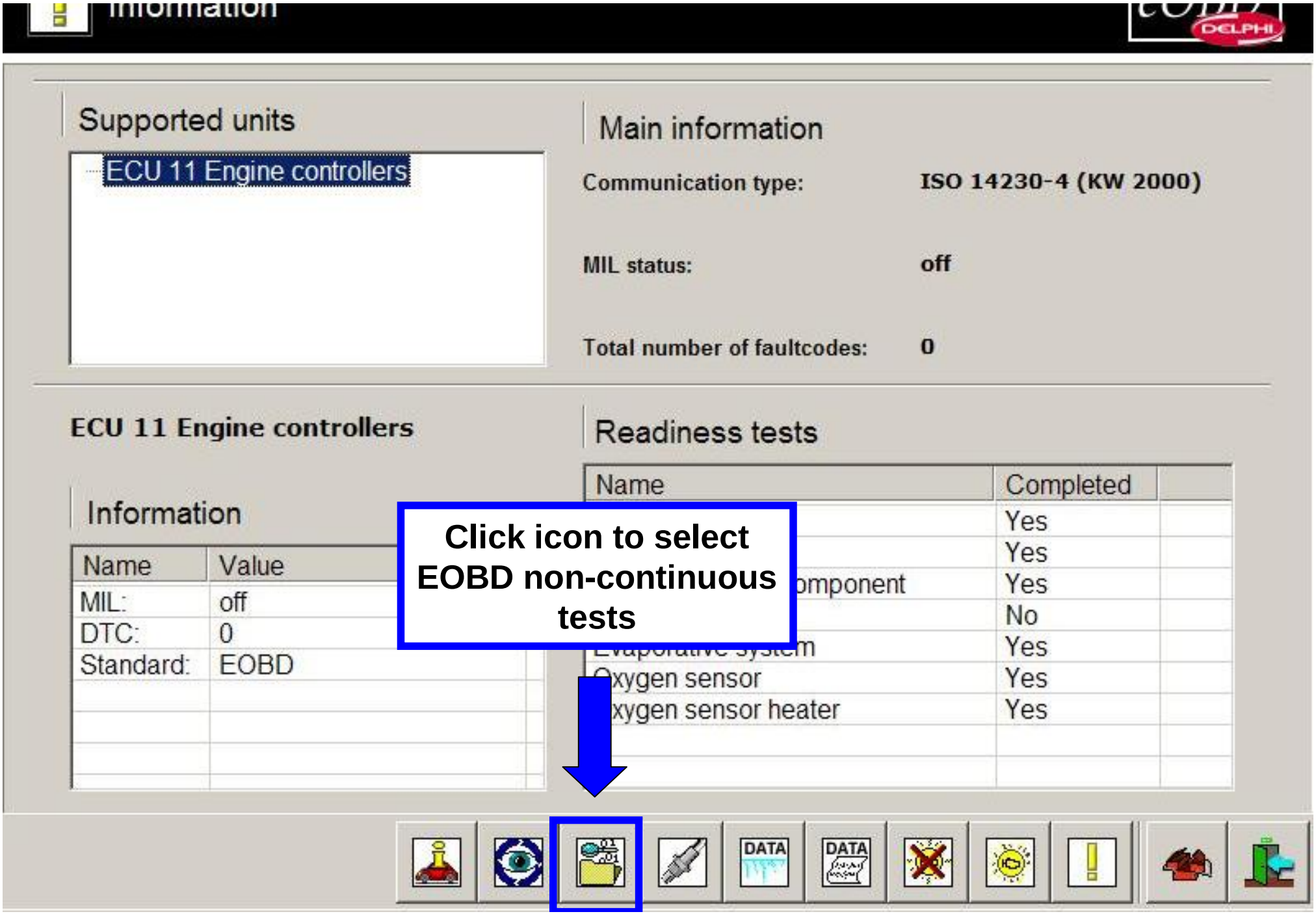
## Oxygen sensors

- 10 Engine controlle
  - Bank 1 - Sensor
    - 01 Rich to lea
    - 02 Lean to ri
    - 07 Minimum
    - 08 Maximum
    - 09 Time betw
    - 30 Manufactu
    - 31 Manufactu
    - 32 Manufactu

## Values

| ECU | Name | Min | Value | Max | U |
|---|---|---|---|---|---|
| 10 | B1-S1 Time between sensor tra... | 0.0 | 0.3 | 1.2 | S |
| 10 | B1-S1 Rich to lean sensor thres... | --- | 0.445 | --- | V |
| 10 | B1-S1 Minimum sensor voltage f... | 0.000 | 0.080 | 0.395 | V |
| 10 | B1-S1 Maximum sensor voltage ... | 0.590 | 0.825 | 1.070 | V |
| 10 | B1-S1 Manufacture test ID descr... | 0.0 | 0.0 | 1.2 | S |
| 10 | B1-S1 Manufacture test ID descr... | 0.0 | 0.0 | 1.2 | S |
| 10 | B1-S1 Manufacture test ID descr... | 0.0 | 0.5 | 2.8 | S |

# NON CONTINUOUS TESTS (EOBD)


Information
DELPHI
Supported units
ECU 11 Engine controllers
Main information
Communication type: ISO 14230-4 (KW 2000)
MIL status: off
Total number of faultcodes: 0
ECU 11 Engine controllers
Information
Name Value
MIL: off
DTC: 0
Standard: EOBD
Readiness tests
Name Completed
Yes
Yes
Yes
No
Yes
Yes
Yes
Click icon to select EOBD non-continuous tests
DATA
DATA

# Non continously test results

eOBD DELPHI

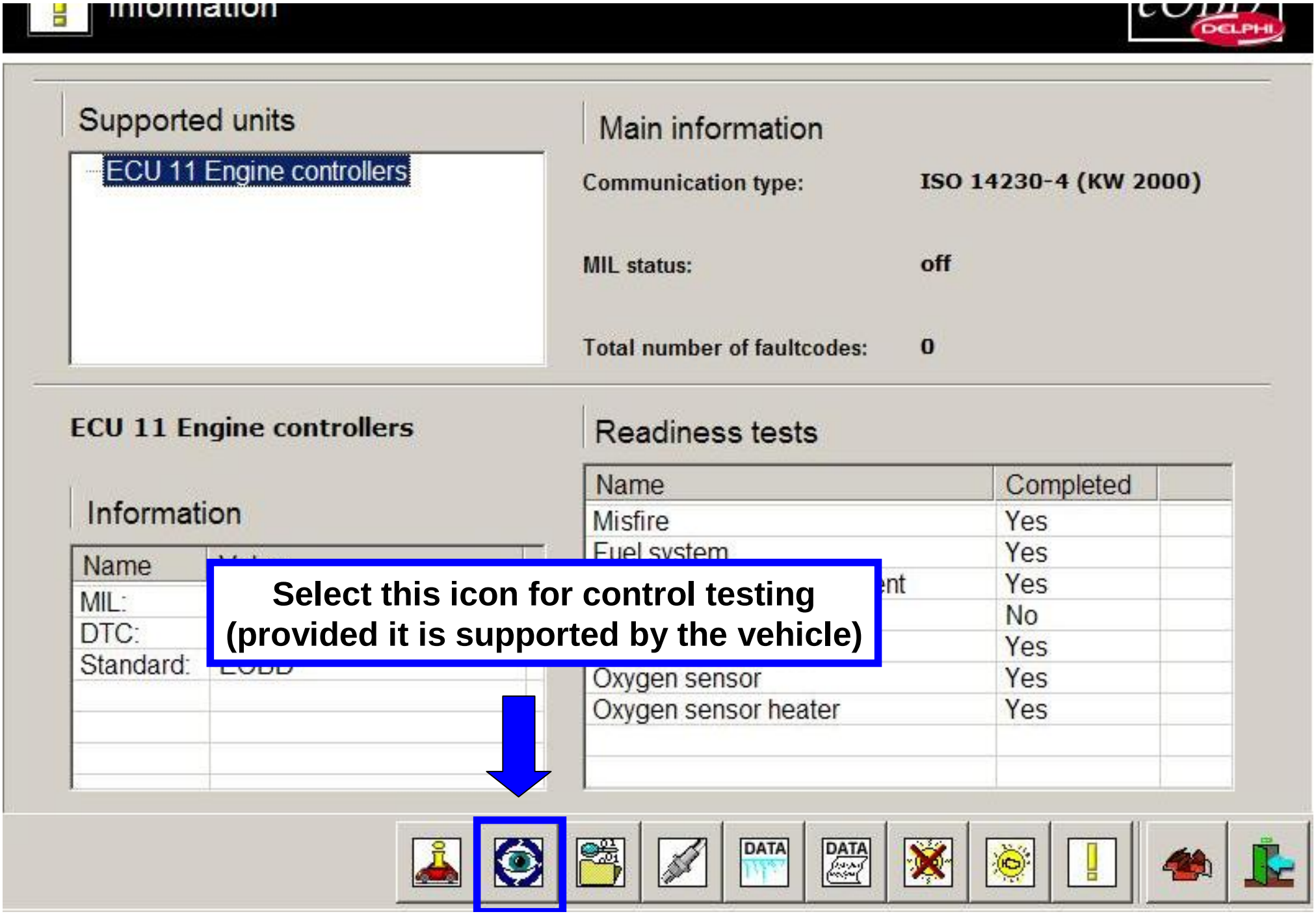
## Non continously test results

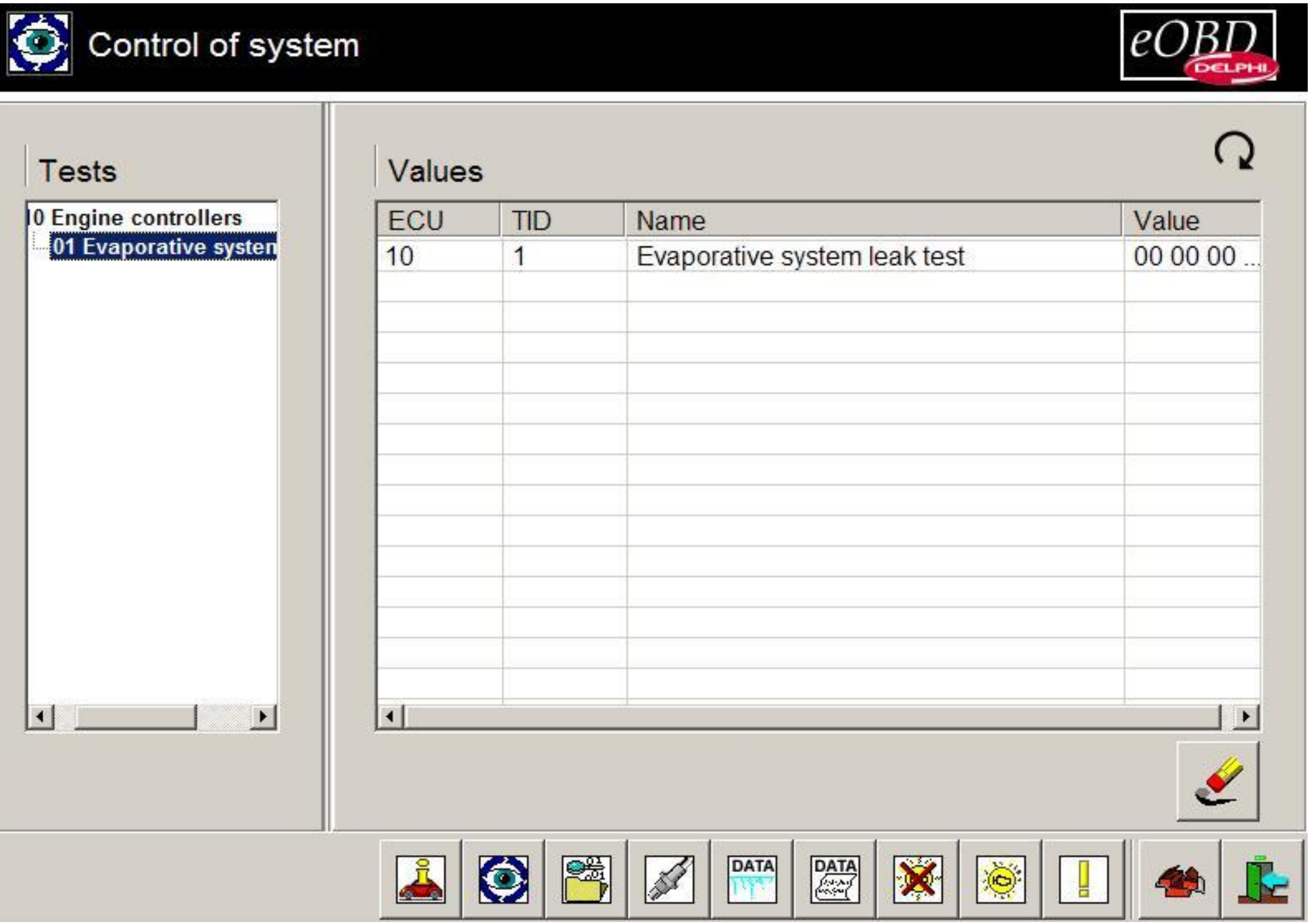
| ECU | TID | CID | Re... | Min | Value | Max |
|---|---|---|---|---|---|---|
| 10 | 01 | 11 | Pass | 460 | 1024 | --- |
| 10 | 03 | 01 | Pass | 0 | 460 | --- |
| 10 | 03 | 02 | Pass | 0 | 460 | --- |
| 10 | 10 | 11 | Pass | --- | 0 | 46 |
| 10 | 4E | 31 | Pass | --- | 151 | 512 |
| 10 | 4E | 31 | Pass | 64 | 151 | --- |
| 10 | 4F | 00 | Pass | --- | 2278 | 3818 |
| 10 | 50 | 00 | Pass | --- | 0 | 2621 |
| 10 | 53 | 01 | Pass | --- | 0 | 26656 |
| 10 | 53 | 02 | Pass | --- | 0 | 26656 |
| 10 | 53 | 03 | Pass | --- | 0 | 26656 |
| 10 | 53 | 04 | Pass | --- | 163 | 26656 |
| 10 | 54 | 00 | Pass | --- | 163 | 26656 |
| 10 | 55 | 00 | Pass | --- | | |
| 10 | 56 | 00 | Fail | --- | | |

**Control of the non-continuous test Mode is carried out automatically By the vehicle ECU**

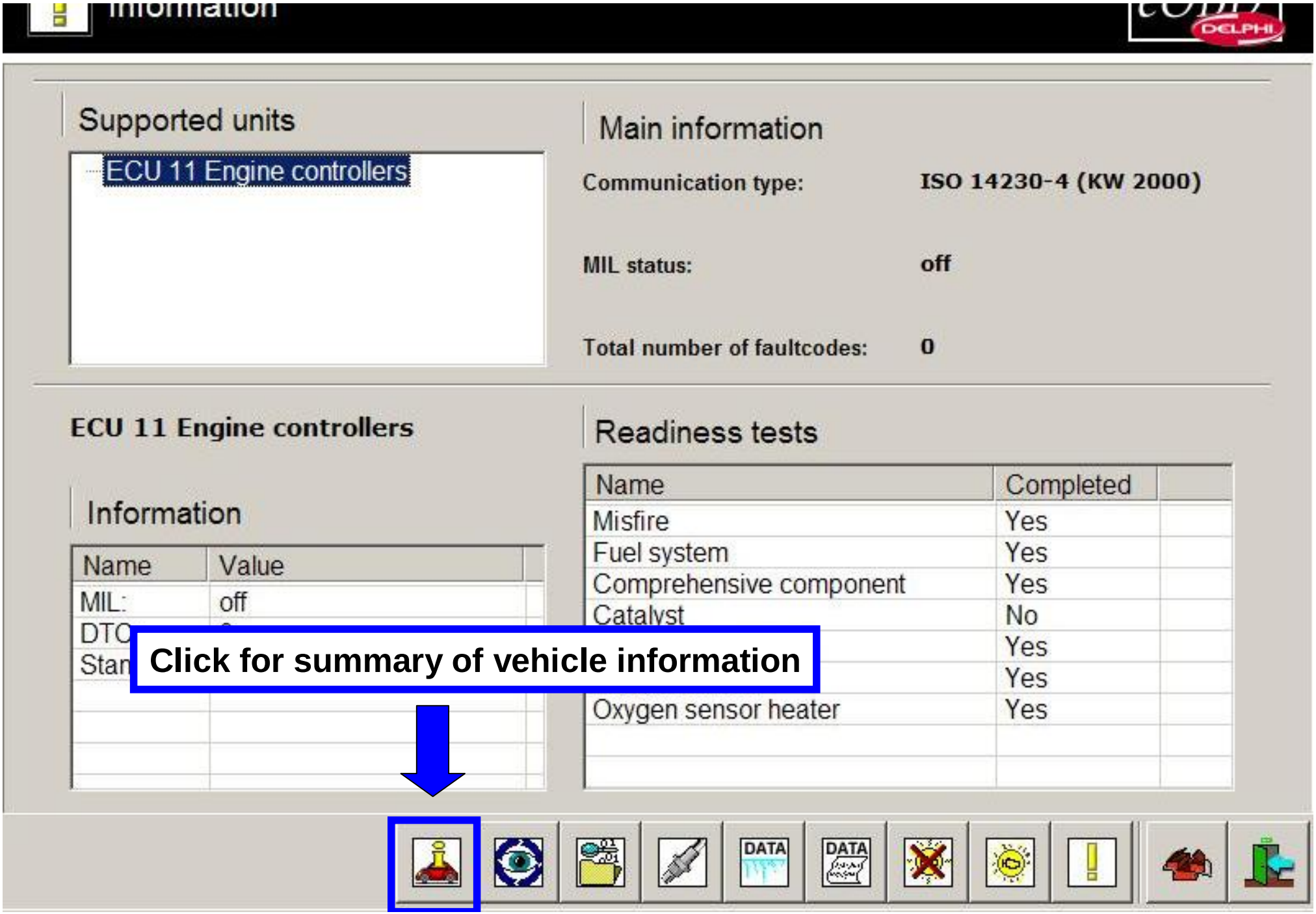
TID info

# CONTROL OF SYSTEM (EOBD)


Information
DELPHI
Supported units
ECU 11 Engine controllers
Main information
Communication type: ISO 14230-4 (KW 2000)
MIL status: off
Total number of faultcodes: 0
ECU 11 Engine controllers
Information
Name
MIL:
DTC:
Standard:
Readiness tests
Name
Completed
Misfire Yes
Fuel system Yes
Yes
No
Yes
Oxygen sensor Yes
Oxygen sensor heater Yes
Select this icon for control testing
(provided it is supported by the vehicle)
DATA
DATA


Control of system
eOBD
DELPHI
Tests
0 Engine controllers
01 Evaporative systen
Values
ECU
TID
Name
Value
10
1
Evaporative system leak test
00 00 00 ...
DATA
DATA

# SUMMARY OF VEHICLE INFORMATION (EOBD)


Information
DELPHI
Supported units
ECU 11 Engine controllers
Main information
Communication type: ISO 14230-4 (KW 2000)
MIL status: off
Total number of faultcodes: 0
ECU 11 Engine controllers
Information
Name Value
MIL: off
Readiness tests
Name Completed
Misfire Yes
Fuel system Yes
Comprehensive component Yes
Catalyst No
Yes
Yes
Oxygen sensor heater Yes
Click for summary of vehicle information
DATA
DATA

# Vehicle information

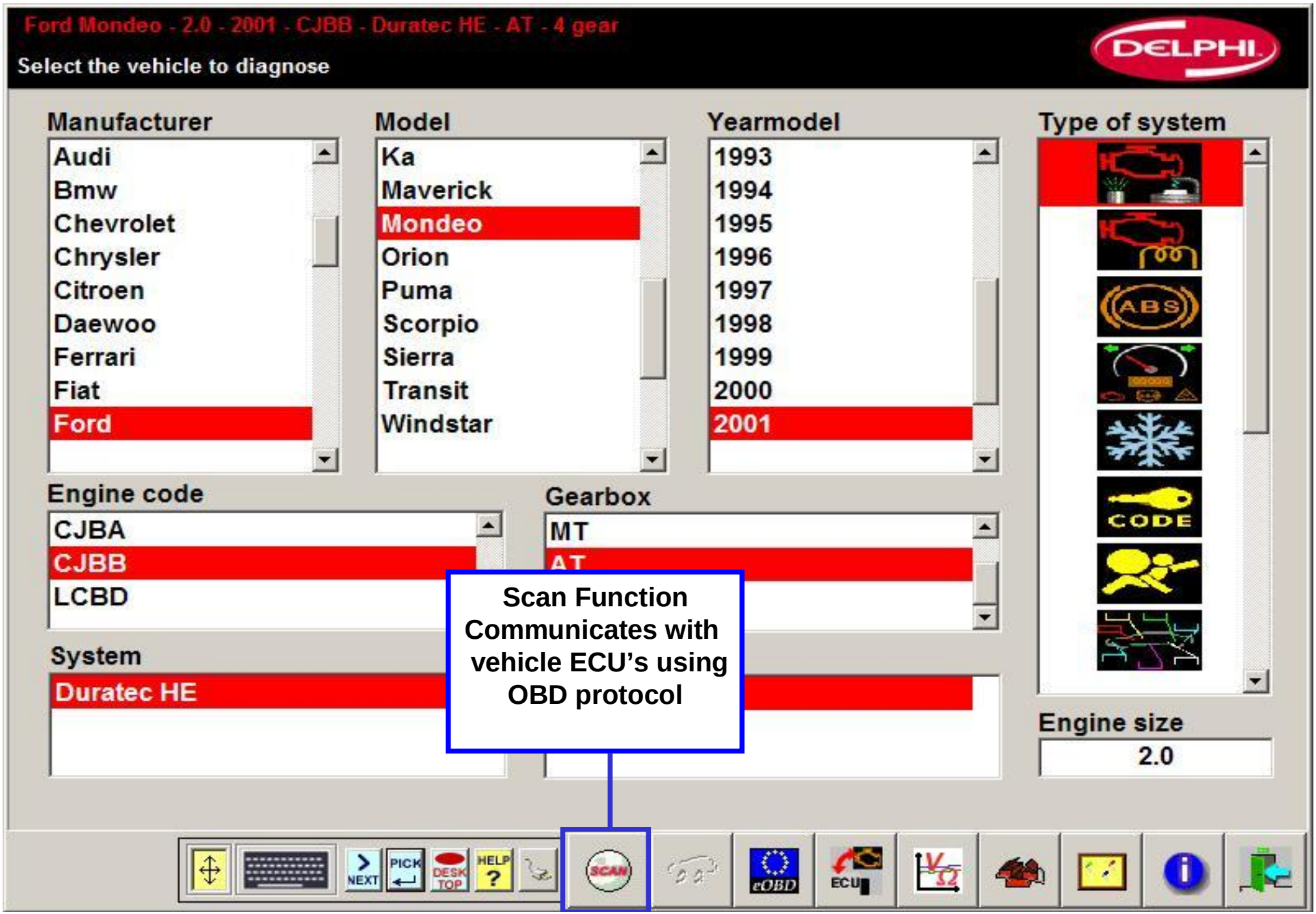
eOBD DELPHI

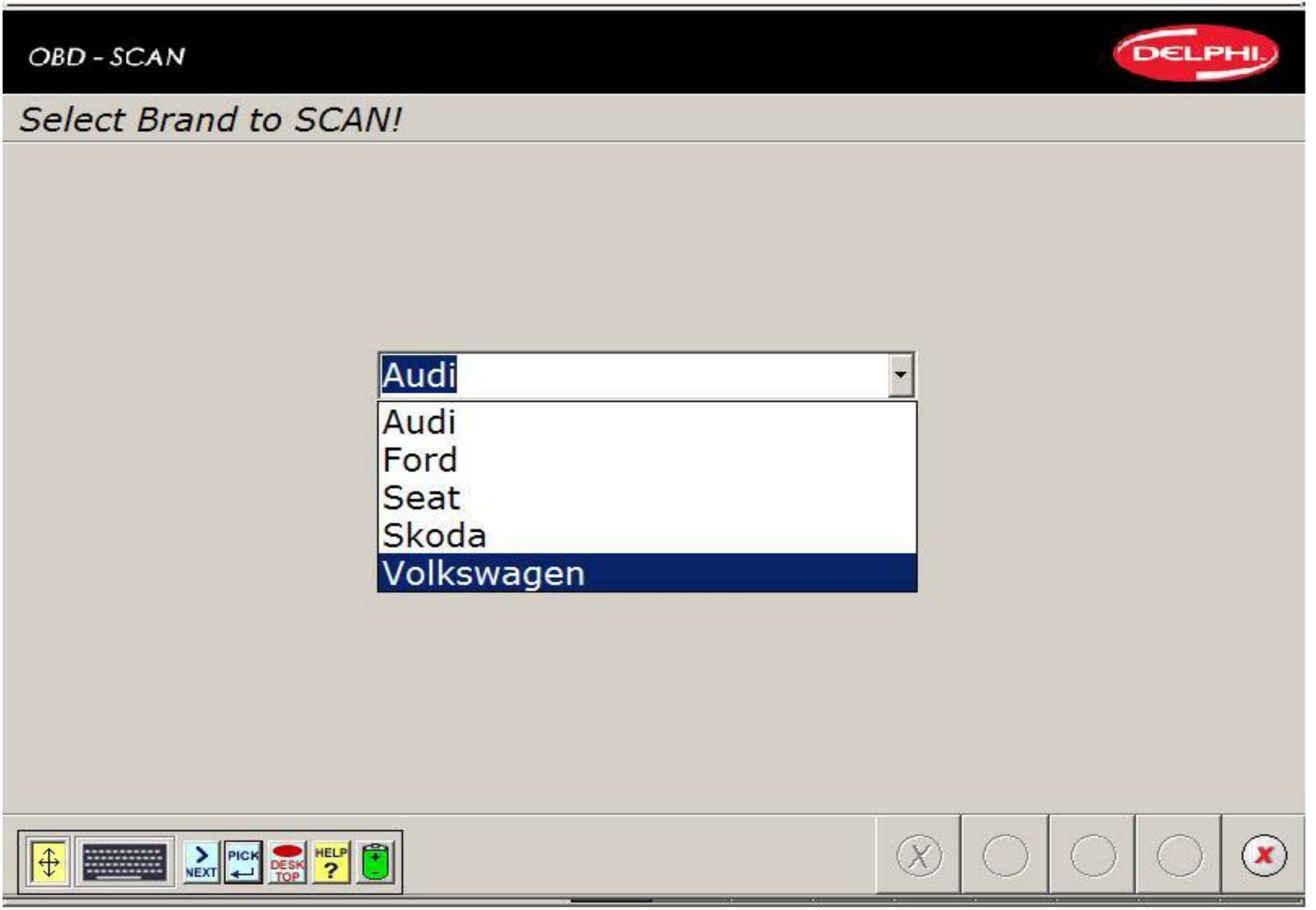
## Vehicle information

| ECU | Name | Value |
|---|---|---|
| 10 | Vehicle identification number | WF0W |
| 10 | Calibration identification number | WAATBA... |

**When supported by the vehicle this screen will give you its ECU information**

# SCAN FUNCTION


Ford Mondeo - 2.0 - 2001 - CJBB - Duratec HE - AT - 4 gear
Select the vehicle to diagnose
DELPHI
Manufacturer
Audi
Bmw
Chevrolet
Chrysler
Citroen
Daewoo
Ferrari
Fiat
Ford
Model
Ka
Maverick
Mondeo
Orion
Puma
Scorpio
Sierra
Transit
Windstar
Yearmodel
1993
1994
1995
1996
1997
1998
1999
2000
2001
Type of system
ABS
CODE
Engine code
CJBA
CJBB
LCBD
Gearbox
MT
AT
System
Duratec HE
Engine size
2.0
Scan Function Communicates with vehicle ECU's using OBD protocol
NEXT
PICK
DESK TOP
HELP
SCAN
eOBD
ECU

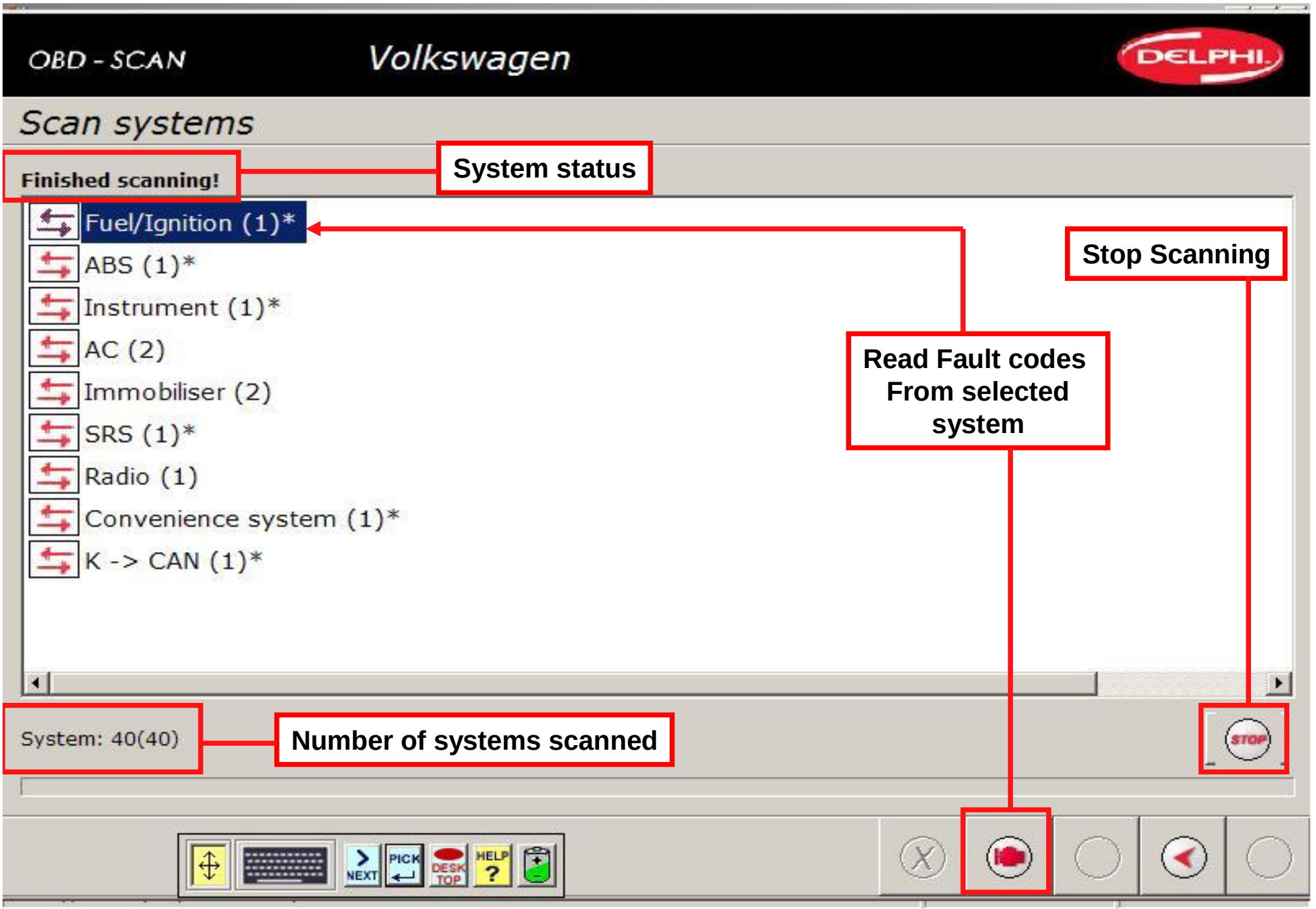

OBD - SCAN
DELPHI
Select Brand to SCAN!
Audi
Audi
Ford
Seat
Skoda
Volkswagen
NEXT
PICK
DESK TOP
HELP

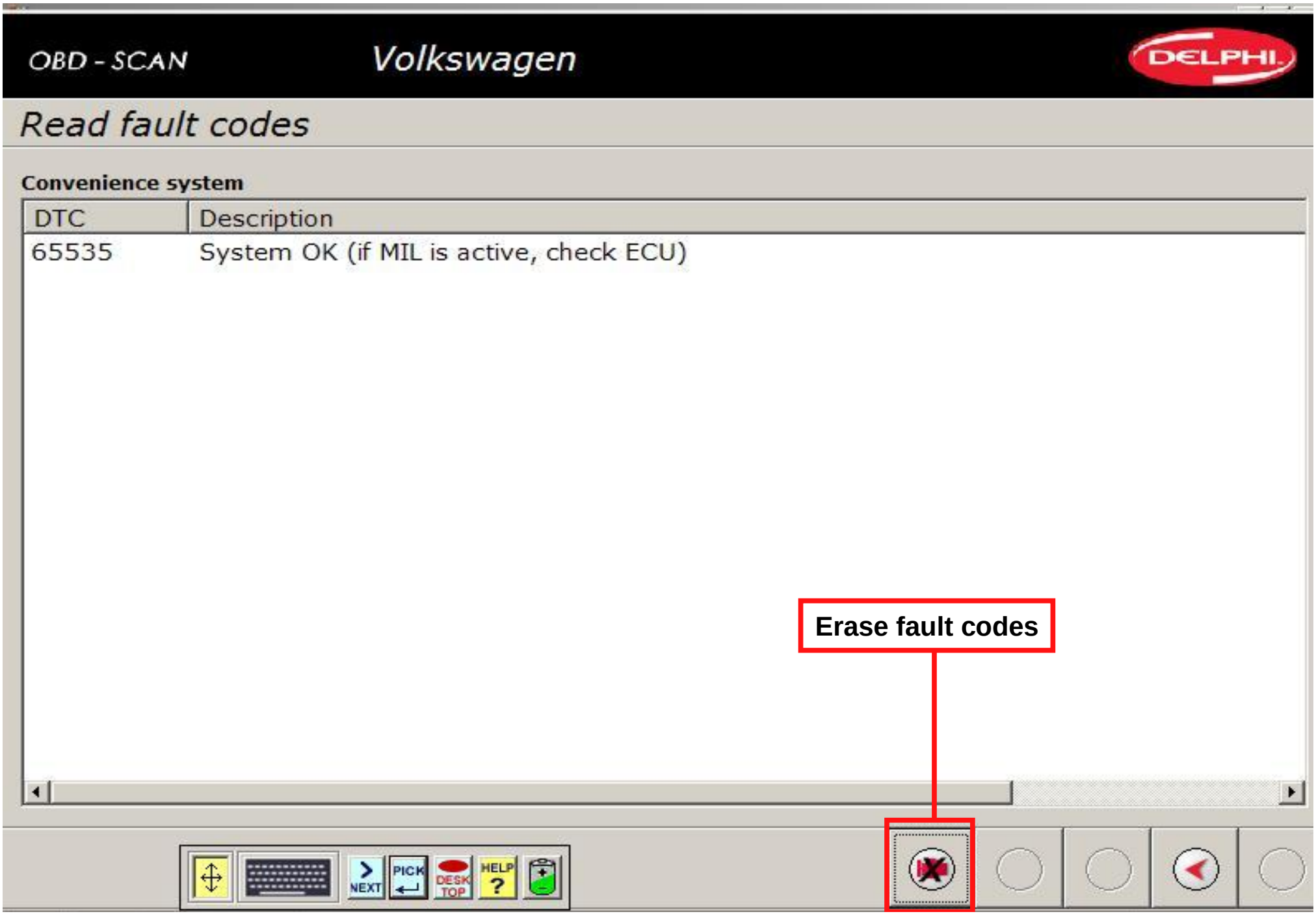
OBD - SCAN

# Volkswagen

## NOTE!

1. Turn ignition on or start engine
2. Press the 'SCAN' button
3. Exit the test by pressing 'Back' button
4. Turn ignition off


OBD - SCAN
Volkswagen
DELPHI
Scan systems
Finished scanning!
System status
Fuel/Ignition (1)*
ABS (1)*
Instrument (1)*
AC (2)
Immobiliser (2)
SRS (1)*
Radio (1)
Convenience system (1)*
K -> CAN (1)*
Stop Scanning
Read Fault codes From selected system
System: 40(40)
Number of systems scanned
STOP
NEXT
PICK
DESK TOP
HELP


OBD - SCAN
Volkswagen
DELPHI
Read fault codes
Convenience system
DTC
Description
65535
System OK (if MIL is active, check ECU)
NEXT
PICK
DESK TOP
HELP
Erase fault codes

# HAPPY DIAGNOSIS!